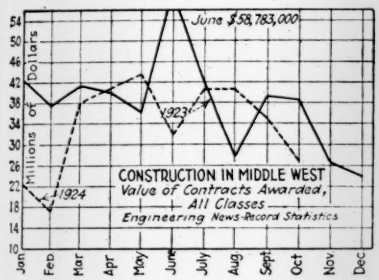
CONSTRUCTION NEWS

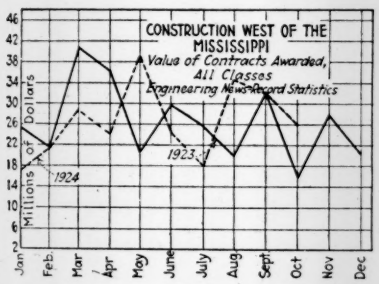
Engineering News-Record, November 20, 1924

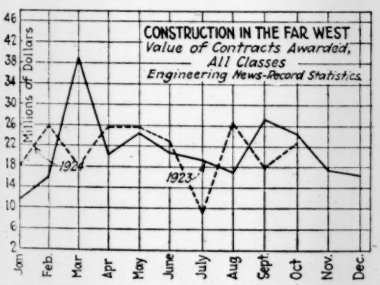
The Construction Barometer

Cost Rising—Materials in Better Demand—Gain in Contracts Let

IT is evident from present indications that construction cost will have reached a point by Dec. 4, at least one per cent above the level of Nov. 6, 1924. Several factors are working toward that end, namely: Growing demand for materials; gain in contracts let; increasing price firmness. Expansion in demand is noted particularly in concreting materials, lime, linseed oil and clay products. The unfilled steel orders as of Oct. 31, were one per cent greater than those on books, Sept. 30, 1924. October cement shipments gained one per cent over the month preceding. Consequent to the gain in demand, reserve stocks at mills, Nov. 1, were 27 per cent under the quantity available Oct. 1, 1924. Aside from a drop of 12 per cent in brick demand in thirty days and a very slight decline in lumber requirements principally for industrial use, there is a general upward movement in materials requirements. Comparing the combined totals for September and October, this year and last, a gain of 17 per cent is shown in number of contracts let. Contract values for the seven weeks, Oct. 2 to Nov. 13, inclusive, show a gain of 15 per cent over the corresponding period last year.


June $58,783,000
1923
1924
CONSTRUCTION IN MIDDLE WEST
Value of Contracts Awarded, All Classes
Engineering News-Record Statistics
Millions of Dollars
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec


CONSTRUCTION WEST OF THE MISSISSIPPI
Value of Contracts Awarded, All Classes
Engineering News-Record Statistics
1923
1924
Millions of Dollars
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec


CONSTRUCTION IN THE FAR WEST
Value of Contracts Awarded, All Classes
Engineering News-Record Statistics
1924
1923
Millions of Dollars
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec

Engineering News-Record Statistics

Minimum on waterworks and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Oct. 30	$25,313,000	$21,448,000	$46,761,000
Nov. 6	12,958,000	21,012,000	33,970,600
Nov. 13	22,248,000	13,091,000	35,339,000
3 weeks	$60,519,000	$55,551,000	$116,070,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

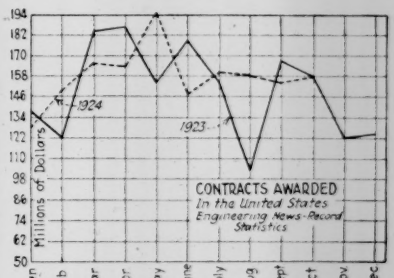
Week Ended	Commercial: Public No.	Commercial: Public Thousand	Commercial: Private No.	Commercial: Private Thousand	Industrial No.	Industrial Thousand
Oct. 30	11	$4,173	24	$19,245	23	$1,659
Nov. 6	8	1,786	36	16,117	13	1,420
Nov. 13	5	977	35	9,911	26	3,080
3 weeks	24	$6,936	95	$45,273	62	$6,159

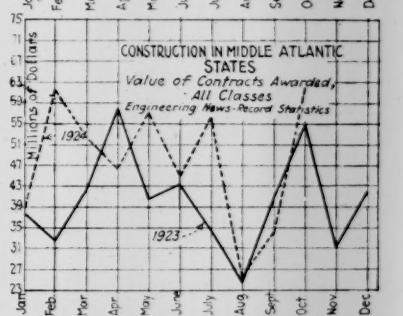
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
Oct. 30	17	39	43	45	191
Nov. 6	25	57	36	35	166
Nov. 13	19	34	43	31	146

STEEL HIGHER—OTHER PRICES FIRM

	Quoted on Nov. 20 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.00	$1.80 @ 2.00	Nov. 13
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M. ft.	55.00	56.00	Oct. 2
Fir, San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr.	.56	.55	Apr. 2




CONSTRUCTION IN MIDDLE ATLANTIC STATES
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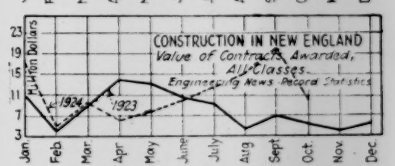
CONSTRUCTION IN NEW ENGLAND
Value of Contracts Awarded, All Classes
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Millions of Dollars
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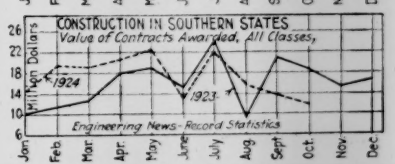
CONSTRUCTION IN SOUTHERN STATES
Value of Contracts Awarded, All Classes,
Engineering News-Record Statistics
1924
1923
Millions of Dollars
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec

Waterworks

PROPOSED WORK

Pa., Bristol — Voted $80,000 bonds extending water and sewer mains.

S. C., Greenville—Voted $2,000,000 bonds enlarging water supply.

Tenn., Knoxville—Election Dec. 12, $2,500,000 bonds, waterworks improvements, incl. new mains, reservoir, pumping plant, etc. L. H. Brownlow city mgr. Noted Apr. 1.

Tenn., Nashville—Voted $3,000,000 bonds for waterworks improvements, incl. new force mains, reservoir, main extensions, boilers, pump house, etc. H. E. Howse, mayor.

Ill., Springfield—Takes bids about Jan. 1, 10 m.g. filtration and water softening plant, and extensions to distribution system. $500,000. Burns & McDonnell Eng. Co., 462 Interstate Bldg., Kansas City, Mo., engrs. Noted Aug. 21.

Wis., Park Falls—See "Dams."

Mo., Lees Summit—Election Dec. 2, $61,000 bonds waterworks and distribution system. E. T. Archer & Co., 609 New England Bldg., Kansas City, engrs.

Mo., Sedalia — Missouri State Utility Comn., Jefferson City, authorized waterworks improvements, involving $500,000, and City Water Co. Sedalia will next month authorize completing plants new supply and proposed improvements. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, engrs. Noted Nov. 13.

Okla., Idabell—Defeated $45,000 bonds for new filtration plant, pumps and meters, and project postponed. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Oct. 23.

Okla., Quinton—Defeated $15,000 bonds, new purification plant, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Oct. 2.

Okla., Verden — Defeated $27,000 bonds for water works and distribution system. Plans to resubmit question to voters at early date. J. C. Milliken, Chickasha, engr.

Ariz., Flagstaff—Had revised estimates prepared waterworks improvements, $475,000 bond election authorized. Burns-McDonnell-Smith, 415 Marsh-Strong Bldg., Los Angeles, Calif. Noted Nov. 6.

Wash., Port Angeles—Made plans and takes bids about Dec. 16, 37,000 ft. 20- to 24-in. wood stave pipe line, concrete dam, 6 m.g. concrete reservoir, and distribution system Burns & McDonnell Eng. Co., 402 Interstate Bldg, Kansas City, Mo., engrs.

Calif., Calipatria — Defeated $50,000 bonds for water system and filtration plant. Noted Nov. 6.

Calif., Escondido—Making plans improving waterworks, incl. filtration plant. Burns-McDonnell-Smith Eng. Co., 415 Marsh-Strong Bldg., Los Angeles, engrs.

Waterworks (Continued)

Calif., Hemet—Making surveys improving water and sewerage systems. Burns-McDonnell-Smith Eng. Co., 415 Marsh-Strong Bldg., Los Angeles, engrs.

Calif., Needles — Plans election $150,000 bonds improving waterworks. Burns-McDonnell-Smith Eng. Co., 415 Marsh-Strong Bldg., Los Angeles, engrs.

Calif., Westend—Burnham Chemical Co., Westend, making plans additional water supply, 111,602 lin.ft. ½- to 3-in. pipe. $50,000. Private plans.

Ont., Fort Erie—Making plans 800 to 1,500 ft. steel intake. $30,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

N. Y., Highlands—Dec. 8, by Boro. Council, pumping equipment in water plant. M. G. Johnson, boro. clk.; adv. E. N.-R. Nov. 20.

N. Y., New York — Nov. 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Haven, 9th and 3rd Aves., East, Service (Riverside Dr.), West 13th, West 14th, West 181st and West 205th Sts.

O., Cleveland—Dec. 4, 6,300 ft. 36 in. c.i. or lock bar mains in Ridge Rd. Sects. 1 and 3; 9,000 ft. 29 in. c.i. or steel mains in Pearl Rd.; 1,050 ft. 10 in. and 5,000 ft. 36 in. c.i. or steel mains in Sect. 3 of West Side 1st High Service Main. A. V. Ruggles, City Hall, engr.

Illinois—Nov. 26, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, 5 rein.-con. bridges on Route 2, Sects. 77-B and D, Winnebago Co.; 2 rein.-con. and 1 steel bridge on Route 8, Sects. 47-B and C, Knox and Peoria Counties; 2 rein.-con. bridges on Route 9, Sect. 19-B, Ford Co.; 4 rein.-con. bridges on Route 9, Sect. 21-B, McLean Co.; 4 rein.-con. and 1 steel bridge on Route 36, Sects. 7-B, 8-B and 8-C, Adams Co.; 1 steel bridge on Route 36, Sect. 8-C, Adams Co.; and 2 rein.-con. bridges on Route 36, Sect. 14-B, Pike Co. F. T. Sheets, ch. engr.

Tex., Brownfield—Montgomery & Ward, engrs., c/o M. L. Copeland, city secy., taking bids 18,900 ft. 4- to 6-in. c.i. pipe, 30 fire hydrants, etc., for City. $55,000. Noted Oct. 16.

Wash., Puyallup—Dec. 3, 21,344 ft. 4- to 10-in. c.i. pipe to Water Dept. H. C. Montgomery, Puyallup, engr.

Calif., Oakdale—Dec. 1, by City Trustees 600 g.p.m. turbine pump. G. Macomber, city engr. Noted Nov. 6.

Calif., San Bernardino—J. H. Osborn, city clk., taking bids 23,000 ft. ½- to 1.5-in. full weight standard, galvanized, threaded and coupled pipe, 6,500 ft. 3 and 4 in. full weight standard, black, threaded and coupled pipe with thread protectors, not dipped.

BIDS RECEIVED

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Nov. 14, mains in Benson, Howard, 3rd and 13th Aves., from Wataga Contg. Co., 308 Lenox Ave., New York, $26,982.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in, Anable, Vandeventer and 9th Aves., etc. from Norton & Rigney, Richmond Hill, $38,000, mains in Manley St., etc., from S. Gallucci, Railroad Ave., Corona, $18,299. Noted Nov. 13.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Baychester, Boller, Hunter, Leggett, Palmer and Randall Aves., etc., from Norton Eng. Co., 510 West 149th St., $38,584; transferring taps, etc., to mains in Haven, 9th, 3rd Aves., etc., from Beaver Eng. & Contg. Co., 57 Chambers St., $7,012. Noted Nov. 6.

Wash., Seattle—Bd. Pub. Wks., 1st Ave. S., pipe line, from J. L. Smith, Pioneer Bldg., riveted steel $124,898, lock bar $123,480. Engrs. est. $128,000.

CONTRACTS AWARDED

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Rockaway Beach, Far Rockaway Blvd., etc., here, to Riverdale Waterworks Co., 144 Bway., New York, $249,186. Noted Nov. 13.

La., Shreveport—W. T. Mayo, comr. Pub. Utilities, City Hall, 30 in conduit from here to Cross Lake, 2 mi. rein.-con. and 1 mi. c.i. pipe, to J. B. McCrary Co., Citizens & Saving Bldg., Atlanta, Ga., $196,500. Noted Oct. 9.

O., Cleveland—City, 1 story, 50 x 52 ft. addition to west filter gallery at Division Ave. Pumping Station, to deHamel Constr. Co., Plymouth Bldg., $18,200. Noted Nov. 13.

O., Cleveland—For 1,123 ft. 42 in. lock bar pipe encased in concrete for tunnel under Cuyahoga River, at Harvard-Denison Bridge, to Graham & Henderson, 1274 West 108th St., $123,775. Noted Nov. 13.

Wis., Shawano—Rein.-con. reservoir, 200,-gal capacity, to P. Schenk, Shawano. Engrs. est. $25,000. Noted Nov. 13.

Ark., Gurdon—Waterworks and distribution system, to Hayden Constr. Co., Jackson, Miss., $58,584. Noted Oct. 30.

Tex., Blooming Grove—G. E. Ramsey, city secy., Nov. 6, waterworks and sewers, to Pittsburg Des Moines Steel Co., Praetorian Bldg., Dallas, $60,000. Engrs. est. $55,000. Noted Oct. 30.

Sewers

PROPOSED WORK

Mass., Brighton (Boston, P. O.)—Dept. Pub. Wks., Boston, plans sewerage works in Arlington, Hobart and Cottage Sts., here. $25,000. J. A. Rourke, comr.

Mass., Gloucester—Plans sewerage pumping station, near Cut Bridge, $50,000.

Mass., Salem—Dept. Pub. Wks., Sewer Div. plans sewerage works in various streets. $25,000 or more.

Pa., Gettysburg—Voted $55,000 bonds outfall sewer and disposal plant.

Pa., Sunbury — Making plans sewers in various streets. $400,000. G. Keefer, Sunbury Trust & Safe Deposit Bldg., engr. Fuller & McClintock, 170 Bway., New York City, consult. engr.

Ky., Ft. Thomas—Voted $350,000 bonds for sewerage system.

O., Akron — Defeated $3,500,000 bonds for sewerage system. J. E. Root, 300 Delaware Bldg., engr. Noted Oct. 30.

Mich., Grosse Pointe (Detroit P. O.)—Made plans 3,000 ft. 10 in., 3,920 ft. 12 in. and 1,480 ft. 15 in. vitr. sewer in Grosse Pointe Blvd. $25,000. J. W. Kerby, village clk.

Ill., Galesburg—Voted Nov. 4, to form Sanitary Dist. which will expend $600,000 for sewers. Pearse, Greeley & Hansen, 39 West Adams St., Chicago, engrs.

Ill., Springfield—Voted $1,500,000 bonds for intercepting sewers, pumping station and activated sludge plant. Pearse, Greeley & Hansen, 39 West Adams St., Chicago, engrs. Noted Sept. 4.

Wis., West Allis — Making preliminary plans vitr. sewers in Lapham, Grant, Rogers and Mitchell Sts., 47th, 78th, Summit, 69th, 83rd, Shenners, Maple, 63rd and Pullen Aves., etc. To exceed $25,000. W. Darby, City Hall, engr.

Minn., St. Paul—Voted $3,000,000 bonds for trunk sewers. G. H. Herrold, city engr.

Kan., Lewis—City, c/o G. L. Crawford, clk., making plans sewerage system, $35,-000. F. E. Devlin, 614 Betting Bldg., Wichita, engr.

Kan., Oxford—Making preliminary plans 5 mi. sanitary sewers and disposal plant. $30,000. Engineer not selected. L. M. Barton, mayor.

Neb., Columbus—Election Dec. 9, $60,000 bonds for sanitary sewers in various streets.

Mo., Kirksville — Making preliminary plans rein.-con. and vitr. clay sewer in Storm Sewer Dist. 3, and vitr. clay sewer in Sanitary Sewer Dist. 125. B. Crabtree, City Hall, engr.

Mo., Lees Summit—Election Dec. 2, $64,-000 bonds for sanitary sewers in various streets. E. T. Archer & Co., 609 New England Bldg., Kansas City, engrs.

Okla., Prague—Making preliminary plans 6 mi. new sanitary sewers and disposal plant. $45,000. Engineer not selected.

Ore., Burns — Voted $280,000 bonds for sewers.

Calif., Hemet—See "Waterworks."

Calif., Los Angeles — Los Angeles Co. plans extending storm sewer from Santa Monica Blvd. and LaCienega Ave. in Sherman, to point near Washington Blvd. and Adams St., monolithic or concrete pipe. A. K. Warren, co. drainage engr.

Ont., Capreol—Making plans 2½ mi. vitr. tile sanitary sewers in various streets, $30,-000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

R. I., Cranston—Nov. 21, 1,794 ft. 15 to 24-in. storm sewer in various streets.

N. Y., New York — See "Streets and Roads."

N. Y., Syracuse—Dec. 4, by Intercepting Sewer Bd., 301 East Washington St., sewer in bed of Old Erie Canal, etc., Contr. 49. H. J. Hamlin, secy.; adv. E. N.-R. Nov. 20.

O., Canton—Jan. 7, at office of J. A. Syler, dir. Pub. Serv., additions to sewage treatment plant. McClaskey & Reese, Canton, engrs.; adv. E. N.-R. Nov. 20.

Calif., Santa Barbara—Taking [illegible] tile and concrete pump and scr[illegible] plant for sewage disposal, with rein.-con. [illegible] one 10 and one 12 in. centrifugal [illegible] direct connected to motors, one 12 [illegible] centrifugal pump with gas engine dr[illegible] e.c. 000,000 gal. daily capacity, 2 cy[illegible] sewage screens with sludge elevators mot[illegible] and automatic ejectors with valves, pip[illegible] etc. (2) labor and material constructi[illegible] 5,757 ft. 14- to 24-in. vitr. interceptor sewers, 4,300 cu.yd. excav., etc. H. Nunn, city mgr.

Calif., Victorville — Victorville Sanitary Dist. taking bids sewage disposal plant, incl. 2.24 acres grading, 800 lin.ft. water and 450 lin.ft. 8 in. sewage pipe, 450 lin. ft. rein.-con. sewage influent trough with 16 control gates, 380 lin.ft. 14 in. c.i. and 7,252 lin.ft. 14 in. concrete outfall sewer, etc. Owner furnishes 6, 8 and 14 in. pipe. W. A. Foster, dist. engr. Noted June 16.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro. pres., Boro Hall, sewers in Wythe Pl. from D. Bonnacci, 672 Degraw St., $495,593; also removing sludge in Johnson and Morgan Aves., from J. Jennings, Belle Harbor, $43,750. Noted Nov. 6.

N. Y., Brooklyn—E. Riegelmann, boro. pres., Boro Hall, (**e.e. means engineers estimate**), from Fenlon Constr. Co., sewers in Utica Ave. 71.48% e.e. $29,301, Albany St. 71.89% e.e. $17,452; from B. Peconi & Son, 570 18th Ave., 62nd St. 71% e.e. $12,433; from J. Gallo, 203 Division St., Rutland Rd. 83% e.e. $10,768; from Tomassetti & Co., Inc., 1133 60th St., East 94th St. 74.74% e.e. $9,252, West 6th St. 74.74% e.e. $4,012, 16th Ave. 71.43% e.e. $3,379; from M. Tozzi, 1362 63rd St., East 28th St. 75% e.e. $6,805, East 46th St. 70% e.e. $5,785, West 9th St. 70% e.e. $4,449; from Nazzarro & Querriero, West 9th St., 67th St. 77.75% e.e. $3,428, Ocean Ave. 78% e.e. $3,244; from R. Iovino, Bedford Ave. 79.75% e.e. $2,639, East 27th St. 77% e.e. $1,048, 13th Ave. 72% e.e. $400, 61st St. 72.5% e.e. $400; from Manmill Constr. Co., 2035 Douglass St., Richardson St., 89.9% e.e $2,198, East 14th St. 94% e.e. $1,518. Noted Nov. 6.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., sewers in Polk Ave., from Green Contg. Co., 734 Vernon Ave., Astoria, (**a**) $45,103, from J. H. Johnson, (**b**) $40,586; sewer in 95th St., from D. A. Gross, 8515 Fulton St., Woodhaven, (**a**) $10,623 (**b**) $10,373; temporary sanitary sewer in Breckenridge Ave. and reconstructing outlet of Remsen St. Sewer from J. Gallo, 203 Division St., Brooklyn, $16,208 and $3,735 respectively.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro., Boro Hall, temporary sewers in New Dorp, Oakwood and vicinity, from Hammen & Co., 279 Madison Ave., Perth Amboy, N. J., $124,970. Noted Nov. 6.

Wis., Milwaukee—Sewerage Comn., 508 Market St., conveyor system in filter dryer house on Jones Island, from Chain Belt Co., 736 Park St., $91,400. Noted Oct. 30.

Calif., Los Angeles—Concrete sewers in Colorado Blvd., from M. Petrovitch, 208 West 2nd St., $146,990.

Calif., Williams — City Trustees 16,600 lin.ft. 6 and 8 in. vitr., and 14,200 lin.ft. 10 and 12 in. vitr. or concrete sewer in various streets, and 1 disposal plant complete, etc., from M. Smith, 1003 85th Ave., Oakland, vitr. $29,597, concrete $29,597. Noted Nov. 6.

CONTRACTS AWARDED

O., Euclid — Brick, steel and concrete superstructure at sewage disposal plant, to de Hamel Constr. Co., Plymouth Bldg., Cleveland, $48,933.

Minn., St. Paul — Sewers in Belt Line, Hazel and Phalen Park, Contr. C, to E. T. Webster, 1463 Goodrich Ave., $20,063; Contr. D, to O'Neil & Preston, 608 Exchange Bank Bldg., $98,000. Noted Nov. 13.

Mo., Richmond Heights (St. Louis P. O.) —E. Davis Realty Co., 8- to 24-in. vitr. clay sanitary sewers, etc., in Pershing Heights subdivision, to Meyers Constr. Co., Merchants-Laclede Bldg., St. Louis. Engrs. est. $28,000.

Ark., Gurdon—Sanitary sewerage system, to Hayden Constr. Co., Jackson, Miss., $43,-604. Noted Oct. 30 under "Waterworks."

Tex., Blooming Grove — See "Waterworks."

Okla., Tulsa—For 1,320 ft. 20 and 22 ft. sewer in Job 10-R, to Tibbetts & Pleasant, 229 North Nogales St., $119,623. Engrs. est. $144,844.

Calif., Los Angeles—Sewers in 79th St. between San Pedro and South Park Ave., to J. Artukovich, 614 North Bunker Hill Ave., $28,780.

Calif., Pomona—Rein.-con. pipe for tri-city outfall sewerage system, to Bent Con-

Sewers (Continued)

crete Pipe Co., Grosse Bldg., Los Angeles, $32,000.

Ont., Birch Cliff—Scarboro Twp. 5 mi. storm sewers in Oakridge Dist., to Dominion Constr. Co., 14 Wellington St., E., Toronto, $55,000.

Waste Disposal

BIDS RECEIVED

Tex., San Antonio—I. Ewig, city engr., Nov. 10, brick and rein.-con. incinerator, from Superior Incinerator Co., Praetorian Bldg., Dallas, $37,750. Noted Oct. 23.

Bridges

PROPOSED WORK

Mass., Grafton — Plans new rein.-con. bridge over Blackstone River, at Depot St., Farnumsville Dist. $25,500. J. Hickory, chn. com. Engineers not selected.

Wisconsin—State Hwy. Comn., Madison, plans concrete slab bridge in Kewanee Co. $1350; rein.-con. bridges in Oneida, Price, Chippewa, Clark, Dunn, Eau Claire, St. Croix, Juneau, Marquette, Dodge, Green and Grant Counties, $35,050; concrete culverts in Dane and Columbia Counties, $1,825; J. T. Donaghey, acting highway engr.

Kan., Wichita—Voted $65,000 bonds, one 45 ft., center span bridge over canal, on Douglas Ave., and $95,000 bonds about 200 ft. bridge with two 25 ft. approach spans over Little River, on Murdock Ave. E. S. Worrell, city clk.

Tex., Abilene—See "Streets and Roads."

Tex., Cuero—See "Streets and Roads."

Ore., Portland — Multnomah Co. voted $500,000 bonds completing Sellwood and Rock Island Bridges. Noted Oct. 9.

California—State Hy. Comn., Sacramento, soon takes bids one 110 ft. arch and two 40 ft. girder spans, bridge on III-Nev.-37-C. Rd., Sta. 50 plus 03, near Donner Summit, about 1¼ mi. east of Summit, Nevada Co. R. M. Morton, state highway engr.

BIDS DESIRED

Md., Baltimore—Dec. 3, by Bd. Awards, c/o City Register, City Hall, removing existing structure and building bridge over Pennsylvania R.R. tracks, on Edmondson Ave. B. L. Crozier, Hy. engr.; adv. E. N.-R. Nov. 20.

West Virginia — Nov. 25, by State Rd. Comn. & Road Dirs. Allegany Co., Md., at office of B. E. Gray, dir. engr.. Keyser, steel superstructure of Piedmont-Westernport Bridge No. 970, three 133 ft. spans, over Potomac River.

North Carolina—Nov. 26, by State Hy. Dept., Raleigh **(S. P. means State Project)** rein.-con. bridges and culverts on S. P. 149, Hertford Co., $61,300; S. P. 205-A, Graven Co., $41,800; S. P. 353, New Hanover Co., $56,500; S. P. 405-B, Chatham and Lee Counties, $75,800; S. P. 488. Wake Co., $35,000; S. P. 941, Haywood Co., $25,100; S. P. 982, Swain Co., $27,800. C. M. Upham, highway engr.

Michigan—Nov. 24, by State Hy. Dept., at office Comrs. Clinton Co., St. Johns, constructing Bridge 191,502, one 75 ft. concrete girder. G. C. Dillman, Lansing, ch. engr.

Mich., Lansing—Dec. 1, by City Clerk, rein.-con. bridge over Grand River, Kalamazoo St. O. E. Eckert, city engr.; adv. E. N.-R. Nov. 20.

Kansas—Dec. 15, by D. Brua, clerk Rice Co., Lyons, two 80 ft. steel span bridges, rein.-con. flooring and foundations, over Crow Creek, one 1 mi. west and 3 mi. south of Lyons, and other 10 mi. southeast of Sterling. S. Ailsworth, Lyons, engr.

Missouri—Nov. 24, by State Hy. Bd., Jefferson City, one 30 ft. rein.-con. deck girder span, etc., over Wiggins Creek, three 40 ft. rein.-con. deck girder spans, etc., over Pin Oak Branch, both Gasconade Co.; reflooring and repairing approaches 160 ft. steel bridge over Shoal Creek, constructing twenty 25 ft. I-beam spans, etc., over overflow Shoal Creek and Grand River, both Livingston Co.; two 60 ft. steel truss spans, etc., over Crooked Creek, Monroe Co.; two 30 ft. rein.-con. deck girder spans, etc., over Clear Creek, Shelby Co. B. H. Piepmeier, ch. engr. Noted Nov. 6.

Tex., Alice—See "Streets and Roads."

Tex., El Paso—See "Streets and Roads."

Tex., Jacksboro — See "Streets and Roads."

Tex., Palestine—See "Streets and Roads."

Tex., Vernon—See "Streets and Roads."

California—Dec. 8, by State Hy. Comn., Sacramento, five 19 ft. span, creosoted timber pile trestle bridge over main canal of Yuma Project, Imperial Co., and five 25 ft. span rein-con. girder bridge over Chowchilla River, Madera Co. R. M. Morton, highway engr.

Calif., Riverside—Riverside Co., taking bids 2 girder 2 span 65 ft. bridge on Corona Elsinore Rd. **(1)** lump sum on bridge complete, incl. remodeling old bridge **(2)** 114 cu.yd. excav. **(3)** 176 cu.yd. concrete **(4)** 18,809 lbs. reinforcing **(5)** remove old bridge. A. C. Fulmor, co. surv.

BIDS RECEIVED

Wis., Milwaukee — F. Schumacher, secy. Park Bd., Nov. 8, 50 x 300 ft., rein.-con. lower terrace for bridge, on Mason St., from H. Danischefsky, 1484 Humboldt Ave., $47,632. Engrs. total est. $230,000. Noted Nov. 13.

CONTRACTS AWARDED

Alabama—State Hy. Dept., Montgomery, 2 span 300 ft. creosoted timber bridge, on Hurtsboro Sealę Rd., Russell Co., to E. Pettus, Montgomery, $27,717. Engrs. est. $28,000. Noted Oct. 16.

Alabama—State Hy. Dept., Montgomery, concrete and steel bridge on Roanoke-Wedowee Rd., State Aid Project 49, Randolph Co., to Nixon & Phillips, Lineville, $40,410; timber bridge on Hurtsboro-Seale Rd., State Aid Project 50, Russell Co., to E. Pettus, Montgomery, $27,717.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, **(F. A. P. means Federal Aid Project)**, 3 rein.-con. bridges over 20 ft. span, on road from F. A. P. 51-A to Madison Co. line Rd., F. A. P. 51-B, Carroll Co., to W. H. Shons & Co., Freeport, Ill., $57,383; 6 rein.-con. deck girder bridges on Laconia-Somerville Rd., F. A. P. 19-C, Fayette Co., to Montgomery & Parker Constr. Co., Rockport, Ind., $88,425; 6 rein.-con. girder bridges, on Greensville-Washington Co. line Rd., F. A. P. 44-A, Greene Co., to A. Lyons, Rogersville, $15,464; 3 rein.-con. girder bridges, on Gates-Dyer Co. line Rd., F. A. P. 39-B, Lauderdale Co., to Ellis & Scamahorn, Rockport, Ind., $27,543; 6 rein.-con. girder bridges, on Gates-Ripley Rd., F. A. P. 39-C, Lauderdale Co., to J. L. Rice & Co., Bon Aqua, $60,479. Noted Nov. 13.

Michigan—State Hy. Dept., Lansing, constructing Bridge 3907001, one 50 ft. concrete girder, 10,108 lb. steel, 615 cu.yd. concrete, etc., to General Builders, Inc., Kalamazoo, $20,930.

Minn., Hibbing — See "Railways" under Minnesota.

Tex., Brady—McCulloch Co., 2 rein.-con. slab bridges on 19.37 mi. State Highway 10, to J. E. Thomas, Rogers, $29,006. Engrs. est. $28,000. Noted Nov. 13.

Okla., Mountain View—State Hy. Dept., Oklahoma City, 2 span 120 ft. rein.-con. bridge, here, Kiowa Co., 41,000 lb. reinforcing, etc., to J. Tibey & Sons, 1524 West 29th St., Oklahoma City, $24,000. Engrs. est. $30,000. Noted Oct. 16 under "Oklahoma."

Okla., Sapulpa—State Hy. Dept., Oklahoma City, 2 span 100 ft. concrete bridge, here, Creek Co., 517 cu.yd. concrete, 3,900 lb. reinforcing, 7,300 lb. structural steel, to Kinglesmith Constr. Co., Drumright, $24,664. Engrs. est. $30,000. Noted Oct. 30.

Calif., Bonsall — San Diego Co. (San Diego), 5 span 667 ft. rein.-con. bridge with steel plate girder approaches each 69 ft., here, to McKay Eng. Co., Los Angeles Railway Bldg., Los Angeles, $129,471.

Ont., Preston—Waterloo Co., 510 ft. steel bridge, 20 ft., over Grand River, near here, to Hamilton Bridge Wks., Hamilton. Engrs. est. $80,000. Noted Oct. 23.

Dams

PROPOSED WORK

Wis., Park Falls—Flambeau River Impvt. Co., E. P. Sherry, pres., 461 Jefferson St., Milwaukee, soon takes bids one 100 ft. concrete and one 4,000 ft. earth dam, 30 ft. head, 155,000 cu.yd. earth work, incl. dikes, 7,067 cu.yd. concrete, 560 tons steel sheeting, 22,000 cu.yd. earth and rock excav., 4,500 cu.yd. rip rap, 120,000 lbs. reinforcing, etc. $200,000. Mead & Seastone, State Journal Bldg., Madison, engrs. Noted Oct. 2.

Mo., Hollister—Empire Dist. Electric Co., c/o H. L. Doherty, pres., 60 Wall St., New York City, (controlled by Cities Service Co., Joplin), plans 2,500 ft. power dam, 175 ft. high, to generate 32,000 hp. and form lake about 80 mi. long, submerging 50,000 acres land, at Table Rock, about 4 mi. above here, on White River. $30,000,000.

Tex., Crystal City — Zavalla Co. voted $200,000 bonds laterals irrigation dam across Nueces River, near here. N. P. Hunt, co. judge. Noted Oct. 16.

Calif., Los Angeles — Los Angeles Co. making plans concrete arch type Sawpit Dam, 125 ft. high, impounding 350 acre ft. $40,000. A. Reagan, co. flood control, engr.

Railways

PROPOSED WORK

Massachusetts—Boston Elevated Ry. Co., Park Sq. Bldg., Boston, plans extending Rapid Transit Lines from Lechmere Sq. through Somerville to North Cambridge. Private plans.

California—Madera Sugar Pine Lumber Co., 1st Natl. Bank Bldg., San Francisco, plans extending approximately 10 mi. logging railroad, at Madera. Private plans.

CONTRACTS AWARDED

Illinois—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, 5 sections of 178 mi. line from Edgewood, Ill., to Fulton Ky., to Shugart & Blythe Bros., Nevada Ia.; A. Guthrie & Co., 608 South Dearborn St., Chicago, Flick Constr. Co., 133 West Washington St., Chicago, Dominion Constr. Co., Niles, Mich., and H. W. Nelson Co., Fulton, Ky. Two more sections to be let later. F. L. Thompson, ch. engr. Noted Feb. 8, 1923.

Minnesota—Duluth, Missabe & Northern Ry. Co., Wolvin Bldg., Duluth, will construct plans 10 mi. new trackage with 110 lb. rails, 1,000,000 cu.ft. excav., 4 concrete and steel bridges, 1 water tank and 2 standpipes,in Hibbing, by day labor. $825,000. W. H. Hoyt, Wolvin Bldg., Duluth, engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Wash., Tacoma—See "Unclassified."

Ore., Beaver Creek — Voted $130,000 bonds, repairing irrigation works in Beaver Creek Irrigation Dist.

Calif., Emeryville—Paraffine Co. Inc., 475 Brannan St., San Francisco, plans dredging and fill at plant site. $65,000 or more.

BIDS DESIRED

N. Y., Harmon-on-Hudson—Dec. 4, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, excavating and grading 55,000 cu.yd. at Croton Point Park, here. J. Downer, ch. engr.; adv. E. N.-R., Nov. 20.

N. Y., Rye—Nov. 24, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, dredging 800,000 cu.yd. at Manursing Island Park. J. Downer, ch. engr.; adv. E. N.-R., Nov. 20.

BIDS RECEIVED

Ark., Marianna—E. P. Douglas, et al., about 2.5 mi. drainage ditches, 37,000 cu.yd. excav., from R. A. Murdock, Nashville, Tenn, $0.19 per cu.yd.

CONTRACTS AWARDED

Mass., Gloucester—Dept. Pub. Wks., Boston, dredging about 20,000 cu.yd. material in Annisquam River, here, to Bay State Dredging Co., 62 Condor St., East Boston, soft deposit $0.42 per cu.yd., boulders $20 per cu.yd. Engrs. est. $25,000. Noted Nov. 6.

Fla., Tampa—H. S. Prince, 512 Franklin St., secy. Harney D. D., Hillsborough Co., 27.5 mi. ditches, 446,000 cu.yd. excav., etc., to Walb Constr. Co., La Grange, Ind., $79,411. Noted Oct. 23.

Streets and Roads

PROPOSED WORK

Massachusetts — Metropolitan Planning Bd., Boston, plans highway from Mattapan Sq. through Milton and Quincy to connect with South Shore Highway. To exceed $50,000. H. I. Harriman, chn.

Mass., Boston—Plans constructing Hazelton and North Munroe Sts. $25,000. J. F. Sullivan, Street Laying Out Dept., secy.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., rejected bids Nov. 7, paving, etc., Jackson, 14th and Astoria Aves., 92nd and 104th Sts. Will readvertise. Noted Nov. 13.

New Jersey—State Hy. Dept., Trenton, plans concrete paving 3 mi. highway in Irvington, Essex Co., $500,000; Toms River cut-off in Toms River, Ocean Co., $300,000; Burlington cut-off through Burlington, Burlington Co. $100,000. W. G. Sloan, Broad Street Bank, Trenton, engr.

N. J., Seaside Heights — Plans concrete paving ¾ mi. road along ocean front and bulkhead beach. $50,000. A. Kramer, mayor in charge. Sherman & Sleeper, 501 Market St., Camden, engrs.

Miss., Meridian—Lauderdale Co. election soon $300,000 bonds for roads. J. W. Parker, mayor.

Miss., Oxford—Voted $675,000 bonds road improvements. Noted Oct. 23.

Streets and Roads (Continued)

Kentucky—State Hy. Dept., Frankfort, rejected bids Oct. 29, waterbound macadam reconstructing 5 mi. Lebanon-Danville Rd., 16 ft., State Project 25-C, Marion Co.; waterbound macadam surfacing 8.655 mi. Augusta-Newport Rd., 14 ft., State Project 21½-A, Pendleton Co.; gravel reconstructing 2.905 mi. Lebanon-Campbellsville Rd., 16 ft., S. P. 25-B, Marion Co. J. S. Boggs, highway engr. Noted Nov. 6.

O., Lakewood (Cleveland P. O.) — Voted $75,000 bonds paving and sewer in various streets. E. A. Fisher, City Hall, engr. Noted Oct. 9.

O., Youngstown—Mahoning Co. plans extending Warren Ave. from intersection of Warren and Glenwood Aves., extending into Austin Twp. for 4 mi. $450,000. G. M. Montgomery, engr.

Mich., Detroit—Made plans paving with 3½ in. sheet asphalt on 8 in. concrete 18,250 sq.yd. Wark Ave., Sect. 1 $91,120, 4,150 sq. yd. Bessemore Ave. $20,750, 8,120 sq.yd. Promenade Ave. $40,570, 5,930 sq.yd. Orleans Ave. $29,650, 5,800 sq.yd. Georgia Ave. Sect. 2 $28,890, 960 sq.yd. Wilson Ave. $4,800, 3,660 sq.yd. Washburn Ave. $18,300, 4,580 sq.yd. Manistique Ave. $22,890. G. Jerome, city engr.

Ia., Eldon—Plans paving, curbing, etc., about 25 blocks various streets. $80,000. J. Varnum, city clk.

Ia., Grundy Center — Grundy Co. defeated $582,000 bonds for roads. Noted Oct. 23.

Ia., Marion—Linn Co. voted $2,332,800 bonds, graveling and paving various roads.

Kan., Atchison—Atchison Co. making preliminary plans grading and brick or rein.-con. surfacing 3.32 mi. Federal Aid Project 112, 18 ft. R. D. Coleman, 418 North 7th St., engr.

Kan., Greenburg — Kiowa Co. making preliminary plans grading, gravel surfacing, etc. 15 mi. various roads 18 ft. J. Garb, Greenburg, engr.

Kan., McPherson—McPherson Co. making preliminary plans grading and gravel surfacing 7.817 mi. Federal Aid Project 288-A, 18 ft., one 70 ft. steel truss span, and one 40 ft. steel truss span bridges. H. A. Rowland, McPherson, engr.

Mo., St. Louis—Soon takes bids grading and paving 13,600 sq.yd., alleys in city blocks 1266, 2198, 4391B, 4502N, 4503N, 4534, 5081, 5090, 5238, 5251, 5319, 5329, 5347, 5402, 5403 and 5679, 18 ft. average. Concrete $69,090, brick $109,250. W. W. Horner, 300 City Hall, engr.

Ark., Harrisburg—Poinsett Co. making preliminary plans grading and gravel surfacing 11.57 mi. Dist. 5, 18 ft. $140,000. J. E. Tuxton, Truman, engr.

Ark., Little Rock—Soon takes bids grading, curbing, paving with asphalt on concrete, asphaltic concrete or rein.-con., Marshall St. $50,000. H. R. Carter, Exch. Bank Bldg., engr.

Ark., Newport—Making preliminary plans grading and rein.-con., asphalt on concrete, asphaltic concrete or Kentucky rock asphalt surfacing 20 blocks various streets in Dist. 10, etc.

Tex., Abilene—Taylor Co. having plans prepared asphalt macadam surfacing on gravel 29.14 mi. State Highway 1. $518,500. W. A. Riney, co. engr.

Tex., Abilene—Taylor Co. making plans grading, bituminous macadam surfacing and steel and concrete bridging 29.14 mi. State Highway 1, 18 ft. $518,500. W. A. Riney, co. engr.

Tex., Brownwood — Brown Co. election Nov. 22, $750,000 bonds permanent paving about 34 mi. roads radiating from here, 18 ft. Noted Apr. 10.

Tex., Cuero—De Witt Co. making plans grading, bituminous macadam surfacing and bridging 15.97 mi. road from Cuero to Gonzales Co. line via Westhoff, State Highway 72, 18 ft., $336,112 bonds voted; grading, gravel surfacing and bridging 5 mi. Cuero-Yorktown Rd., State Highway 72, 18 ft., $42,812 bonds voted. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Ennis — Ellis Co. voted $75,000 bonds paving various streets. G. C. Sanderson, city secy.

Tex., Groveton—Trinity Co. election Dec. 6, $94,000 bonds constructing roads in Rd. Dist. 6. F. J. Berry, co. judge.

Tex., Laredo—Webb Co. making plans bituminous macadam surfacing 1.2 mi. State Highway 2, 24 ft. $25,000. T. E. Huffman, co. engr.

Tex., Marshall — City Comn., c/o M. Ramsey, city engr., taking bids paving, etc., 33,000 yd. various streets.

Tex., San Antonio—Bexar Co. made plans grading, gravel base and 1 in. asphalt surfacing 8.8. mi. State Highway 3, 18 ft. $149,000. A. C. Pancoast, co. engr.

Tex., Sherman — Election soon $50,000 bonds paving various streets. $50,000. O. J. Ellingson, city mgr. Engineer not announced.

Oklahoma—State Hy. Dept., Oklahoma City, plans grading and paving 75 mi. Lee and Oklahoma Texas Highways, 18 ft., Garvin Co. $800,000. J. M. Page, highway engr.

Okla., Ardmore—Made surveys grading, curbing, guttering and vertical fibre brick paving 6,600 sq.yd. 12th St., 30 ft. $35,000. S. Mathews, Ardmore, engr.

Okla., Checotah—Takes bids probably in December, grading and brick on concrete surfacing 22,500 sq.yd. Bway and Jefferson Highway. T. P. Clonts, 2110 Garland St., Muskogee, engr. Noted Oct. 30.

Okla., Cherokee—Soon takes bids grading, hard surfacing, etc., 10 blocks various streets. Address city engineer.

Okla., Cherokee—Making plans grading and paving 6 blocks South Grand Ave., 26 ft., 7,200 sq.yd. vertical fibre brick, 3,200 ft. curbing, 2,500 cu.yd. excav. $35,000. State Hy. Dept. to pay for 9 ft. Engineer not selected.

Okla., Elkins—Canadian Co. having surveys made grading and paving 50 mi. Meridian Highway, 18 ft. $300,000. J. M. Page, Capitol, Oklahoma City, engr.

Okla., Fairfax—Plans grading and paving 9 blocks 5th, Roosevelt and Park Sts. in Dist. 5, 10,100 sq.yd. vitr. brick, 6,200 lin.ft. curbing and guttering, 4[illegible] cu.yd. earth and 75 cu.yd. rock excav[illegible] V. V. Long & Co., 1300 Colcord Bl[illegible] Oklahoma City, engrs.

Okla., Fairfax—Making preliminary plans grading and brick on concrete pavi[illegible] 10,000 to 12,000 sq.yd. various streets. $60,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Pawhuska—Osage Co. plans concrete paving 67,000 sq.yd. Fairfax-Ponca City Rd. $100,000. W. M. Clark, Pawhuska, engr.

Okla., Sand Springs—Plans grading and paving 8 blocks various streets. Dist. 9, 26 ft. $35,000. C. Tingley, Sand Springs, engr.

Okla., Wetumka — Making preliminary plans grading and brick on concrete surfacing 15,000 sq.yd. Paving Dist. 3. $70,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ore., Coquille—Coose Co. voted $280,000 bonds for highway construction.

Ore., Kalamath Falls — Kalamath Co. voted $725,000 bonds for highway construction.

Calif., El Cerrito—Plans improving portions of Liberty, Lexington Sts., etc., 250,000 sq.ft., 1.5 in. Warrenite bituminous on 2.5 in. asphaltic concrete, etc.; Stockton St. 50,000 sq.ft. 1.5 in. Warrenite bituminous on 3 in. asphaltic concrete. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Redding—Plans paving 20 blocks various streets. To exceed $25,000.

SUBWAY—PHILADELPHIA, PA.

Bids were opened by Dept. City Transit, Oct. 21, for constructing portion of Broad St. Subway from Clearfield St. to north of Courtland St., Contr. No. 106, (A) Patrick McGovern, Inc., 50 East 42nd St., New York City, (awarded contract); (B) Booth & Flinn, Ltd., 17 Battery Pl., New York City; (C) The Arundel Corporation, Pier 2, Pratt St., Baltimore, Md.; (D) Rodgers & Hagerty, Inc., 70 East 45th St., New York City. The unit bids were as follows:

	A	B	C	D
Clearfield Street sewer (lump sum)	$275,000.00	$250,000.00	$325,000.00	$325,000.00
Ontario Street sewer crossing (lump sum)	50,000.00	50,000.00	60,000.00	60,000.00
Courtland Street sewer (lump sum)	350,000.00	350,000.00	400,000.00	275,000.00
Reading Railroad Crossing (lump sum)	250,000.00	400,000.00	300,000.00	428,625.00
660,000 cu.yd. subway excavation	10.70	12.30	12.50	12.25
12,000 cu.yd. excavation for pipes, sewers and conduits	10.40	10.00	12.50	12.25
1,953 lin.ft. 9 x 11 ft. concrete sewer, Park Avenue and Ontario Street	250.00	225.00	300.00	310.00
Underpinning:				
1,400 ft. of front (A) buildings 5 stories or less	55.00	100.00	100.00	70.00
200 cu.yd. (D) additional masonry for underpinning	35.00	40.00	50.00	50.00
Concrete Masonry:				
100 cu.yd. (A) 1:1½:3	22.00	20.00	28.00	30.00
73,000 cu.yd. (B) 1:2:4	22.00	20.00	25.00	22.00
10,000 cu.yd. (C) 1:3:6	17.00	16.00	20.00	22.00
1,000 cu.yd. (D) 1:4:8	14.50	15.00	15.00	22.00
2,000 sq.ft. reinforced concrete sheeting	1.35	2.00	1.50	1.50
2,000 bags of cement grout	2.20	2.00	2.50	2.00
Granolithic Finish:				
10,600 sq.yd. (A) without abrasive	1.10	1.50	1.00	1.50
1,600 sq.yd. (B) with abrasive	2.60	2.50	2.00	2.90
1,000 cu.yd. brick masonry	50.00	35.00	30.00	65.00
200 cu.yd. hollow terra-cotta brick or tile masonry	33.00	35.00	20.00	65.00
400 sq.yd. vitrified brick sewer lining	7.00	9.00	6.00	10.00
400 cu.yd. rubble masonry in mortar	11.00	12.00	7.00	15.00
200 cu.yd. dry rubble masonry	9.00	9.00	6.00	15.00
100 sq.yd. granite block sewer lining	4.50	6.00	5.00	10.00
300 cu.yd. broken stone or pebbles for drains	5.00	6.00	5.50	4.00
Flagstones:				
400 sq.ft. (A) 2-in. thickness	.65	.70	1.00	.80
100 sq.ft. (B) 4-in. thickness	1.10	1.20	1.25	1.25
100 sq.ft. (C) 6-in. thickness	3.30	2.50	4.00	2.80
Vitrified Clay Pipe:				
6,000 lin.ft. (A) 4-in.	.45	.75	.50	1.00
10,000 lin.ft. (B) 5- or 6-in.	.75	.75	1.00	1.50
400 lin.ft. (C) 8- or 10-in.	1.10	1.50	1.25	2.00
11,000 lin.ft. (D) 12-in.	1.35	1.75	1.50	2.50
8,000 lin.ft. (E) 15-in.	2.20	2.75	2.50	3.00
400 lin.ft. (F) 18-in.	4.40	4.00	5.00	4.60
100 lin.ft. (G) 20-in.	5.25	5.00	6.00	5.50
200 lin.ft. (H) 24-in.	7.00	6.00	8.00	7.00
Extra Heavy Cast-Iron Soil Pipe:				
100 lin.ft. (A) 3-in.	.70	1.00	1.00	1.00
2,600 lin.ft. (B) 4-in.	1.10	1.50	1.25	1.50
100 lin.ft. (C) 5-in.	1.30	2.00	1.50	2.00
2,000 lin.ft. (D) 6-in.	1.50	2.00	1.75	2.50
100 lin.ft. (E) 8-in.	2.75	2.50	3.00	3.00
100 lin.ft. (F) 10-in.	3.85	4.00	4.00	4.00
100 lin.ft. (G) 12-in.	4.40	6.00	5.00	5.00
50 new manholes	400.00	350.00	325.00	400.00
1,100 vert.ft. new wellholes	35.00	15.00	25.00	50.00
Inlets:				
2 (A) No. 1	330.00	250.00	200.00	200.00
7 (B) No. 2	300.00	250.00	200.00	200.00
8 (C) No. 3	300.00	250.00	150.00	200.00
Taking Out and Rebuilding Inlets:				
2 (A) having standard pattern casting	110.00	200.00	150.00	200.00
2 (B) having old pattern casting to be replaced by standard pattern casting	220.00	200.00	150.00	200.00
68,000 sq.yd. asphalt mastic waterproofing	2.20	2.25	2.50	3.00
Fabric Waterproofing:				
200 sq.yd. (A) 1-ply	1.35	1.50	.90	1.50
4,000 sq.yd. (B) 2-ply	2.00	1.80	1.50	2.50
100 sq.yd. (C) 3-ply	3.00	2.50	2.50	3.50
100 sq.yd. (D) 4-ply	4.00	3.00	3.50	5.00
100 sq.yd. 1-ply dry roofing felt	1.25	1.50	.75	1.50
10 cu.yd. brick in waterproofing compound	60.00	100.00	40.00	100.00
1,400,000 lb. riveted structural steel	.07½	.07½	.06	.07

17,400,000 lb. steel beams and shapes	.07½	.07½	.06	.07
10,000 sq.ft. steel gratings and frames	3.40	3.50	3.00	4.00
15,000 lb. miscellaneous steel, ladders, stairs, plates	.15	.15	.10	.20
330,000 lb. tie rods, bolts, nuts, washers, dowels and anchor bolts	.10	.10	.10	.15
10,000 lb. steel wire lath and anchors	.35	.20	.25	.20
1,100,000 lb. steel reinforcing rods	.04½	.07	.05	.06
100 net tons interlocking steel sheet piling	110.00	80.00	100.00	150.00
Steel Pipe Piles:				
100 vert.ft. (A) 12-in.	8.00	5.00	10.00	10.00
500 vert.ft. (B) 15-in.	10.00	10.00	12.00	15.00
4,000 lb. wrought iron or steel pipe, any size, with fittings	.15	.12	.10	.20
6 emergency exit covers	440.00	400.00	300.00	500.00
50,000 lb. cast-iron frames and covers for manholes	.10	.10	.08	.10
6,000 lb. miscellaneous iron castings other than manhole frames and covers	.10	.15	.15	.10
100 10-in. grate top iron bell trap cesspools	11.00	40.00	10.00	20.00
200 M. ft. B. M. yellow pine lumber	70.00	75.00	100.00	100.00
Cast-Iron Pipe, Furnished, any standard size:				
50 net tons (A) bell and spigot straight	65.00	75.00	70.00	100.00
8 net tons (B) bell and spigot specials	165.00	150.00	175.00	200.00
Laying Bell and Spigot Cast-Iron Pipe and Specials:				
100 lin.ft. (A) 4-in.	.80	.60	.60	1.50
3,000 lin.ft. (B) 6-in.	.90	.75	.80	3.00
100 lin.ft. (C) 8-in.	1.25	1.00	1.00	6.00
100 lin.ft. (D) 10-in.	1.50	1.00	1.25	7.00
2,500 lin.ft. (E) 12-in.	2.00	1.50	1.75	7.00
100 lin.ft. (F) 16-in.	2.50	2.00	2.00	8.00
100 lin.ft. (G) 20-in.	3.00	2.25	2.50	8.00
100 lin.ft. (H) 24-in.	3.30	2.75	3.00	10.00
100 lin.ft. (J) 30-in.	3.75	3.25	3.50	15.00
140 net tons removing cast-iron pipe, bell and spigot straight and specials	20.00	20.00	10.00	40.00
Furnishing and Setting Bell End Water Gate Valves:				
2 (A) 4-in.	45.00	25.00	40.00	100.00
6 (B) 6-in.	70.00	35.00	60.00	100.00
2 (C) 8-in.	85.00	75.00	80.00	150.00
6 (E) 12-in.	150.00	100.00	100.00	200.00
200 copper strainers	2.00	5.00	1.50	5.00
94,000 duct.ft. 3-in. terra cotta ducts	.35	.20	.28	.30
400,000 duct.ft. 3½-in. terra cotta ducts	.35	.20	.28	.30
Electrical Conduits:				
200 lin.ft. (A) ¾-in.	.20	.25	.25	.50
30,000 lin.ft. (B) 1-in.	.30	.25	.40	.60
200 lin.ft. (C) 1¼-in.	.35	.40	.50	.80
5,000 lin.ft. (D) 1½-in.	.40	.45	.60	.80
700 lin.ft. (E) 2-in.	.45	.55	.75	1.00
200 lin.ft. (F) 2½-in.	.85	.70	1.00	1.50
600 lin.ft. (G) 3½-in.	1.10	1.10	1.50	1.60
1,000 outlet boxes	1.10	2.50	1.00	6.00
70 pull boxes	2.20	7.50	2.00	6.00
160 reflector rings	11.00	3.25	10.00	10.00
Temporary lighting system (lump sum)	5,000.00	5,000.00	10,000.00	5,000.00
1,000 sq.yd. temporary brick sidewalk paving	2.50	2.50	3.00	4.00
Temporary Granite Block Paving, Gravel Joints:				
70,000 sq.yd. (A) furnishing and laying new granite blocks	6.00	5.00	5.50	6.00
2,000 sq.yd. (B) relaying old granite blocks	2.10	1.50	2.00	5.00
Permanent Paving:				
2,000 sq.yd. (A) sheet asphalt	4.50	6.00	4.50	5.00
100 sq.yd. (B) bituminous concrete	4.50	3.00	4.00	5.00
100 sq.yd. (C) reinforced concrete	4.50	5.00	4.00	5.00
1,000 sq.yd. (D) smooth-dressed granite block	7.00	7.50	6.50	9.00
100 sq.yd. (DD) redressed granite block	5.00	5.00	4.50	9.00
400 sq.yd. (E) vitrified block	6.00	5.00	4.50	6.00
100 sq.yd. (F) wood block	6.00	4.00	4.50	6.00
Furnishing and Laying Curb:				
100 lin.ft. (A) 6-in. straight granite curb	3.50	3.50	3.00	4.00
2,000 lin.ft. (B) 8-in. straight granite curb	3.50	3.50	3.00	4.50
100 lin.ft. (C) 6-in. curved granite curb	4.75	4.50	4.50	7.00
200 lin.ft. (D) 8-in. curved granite curb	4.75	4.50	4.50	8.00
1,000 lin.ft. (E) 8-in. steel edge concrete curb	2.50	2.00	2.00	4.00
13,000 lin.ft. resetting curb	1.00	1.00	.75	1.00
Sidewalk Paving:				
8,000 sq.yd. (A) new granolithic	3.00	2.70	2.75	3.00
500 sq.yd. (B) new brick	2.50	2.00	3.00	3.00
1,000 sq.yd. (C) laying flagstones	3.00	2.00	1.50	3.00
1,000 sq.yd. (D) restoration of grass plots	2.00	1.00	1.00	2.00
1,000 sq.ft. vault lights	3.50	3.50	4.00	4.00
2,000 sq.ft. safety treads	2.50	2.50	3.00	2.50
For force account ($300,000—per cent added)	15%	30%	15%	25%
Extended totals	$13,485,414	$14,426,910	$14,906,275	$15,055,000

Streets and Roads (Continued)

Calif., Riverside — Riverside Co. taking bids improving 8,200 ft. Hammer Ave. north of Corona, 131,200 sq.ft. macadam paving, 3,952 cu.yd. excav., etc. $25,000. A. C. Fulmor, Riverside, engr.

Calif., Santa Ana—Orange Co., plans improving Rd. Dist. 39 between LaMirada St. and Orange Co. line, 88,765 sq.ft. 5 in. asphaltic concrete paving, 3,230 cu.yd. excav., 20,527 sq.ft. macadam shoulders, 1,500 cu.yd. decomposed granite sub-grade material. J. L. McBride, co. rd. comr.

Calif., San Anselmo—City Trustees take bids about Dec. 1, improving Humboldt Ave. 1,000 cu.yd. grading, excav., 26,500 sq.ft. grading, surface, 26,500 sq.ft. 5 in. concrete paving, 280 lin.ft. 10 and 12 in. corrugated iron culverts, etc. J. J. Jessup, city engr. Noted Oct. 30.

BIDS DESIRED

N. Y., Long Island City—Nov. 28, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., grading, curbing, sidewalks, etc., on Bway., 7th Ave., Bliss, Ridge, 12th, 51st and 96th Sts.; grading, asphalt paving, etc., Jackson, 14th and Astoria Aves., Hallett, Queens, 92nd and 104th Sts.

N. Y., New York—Nov. 26, by J. Miller, pres. Manhattan Boro., Municipal Bldg., grading, curbing, flagging and storm sewers in West 214th St. and Indian Rd.

Pa., Phila.—Nov. 24, by Bureau Hys., Dept. Pub. Wks., grading (Schedule A) 4,451 cu.yd. Aldine, Bleigh and Tudor Sts., 896 cu.yd. Irving St.; asphalt paving (assessment work) (Schedule B) 6,753 sq.yd. Sprague St.; redressed granite block repaving (Schedule C) 2,050 sq.yd. Alder, Chancellor, Clifton, St. James and Warnock Sts., 764 sq.yd. Terrace St. and 750 sq.yd. 11th St.; furnishing and delivering (Schedule D) 5x5 Ingersoll Rand Type 20, portable gasoline engine driven, air compressor unit mounted on Ford truck; asphalt repaving (Schedule E) 1,830 sq.yd. Latimer St., and 7,825 sq.yd. 38th St. G. H. Biles, dir. Pub. Wks.

North Carolina—Nov. 26, by State Hy. Dept., Raleigh (**S. P. means State Project**), grading, etc., 5.42 mi. S. P. 488, Wake Co., $28,000, 7.59 mi. S. P. 353, New Hanover Co., $50,900, 6.29 mi. S. P. 792, Yadkim Co., $36,800. 9.89 mi. S. P. 941. Haywood Co., $143,200, 6.81 mi. S. P. 982, Swain Co., $80,600; grading and top-soiling 15.31 mi. S. P. 136, Halifax Co., $85,600, 5 mi. S. P. 149, Hertford Co. $59,500, 3.62 mi. S. P. 441-A, Harnett Co., $33,500; grading and concrete or asphalt paving 5.03 mi. S. P. 648-B, Lincoln Co., $139,000, 9.88 mi. S. P. 646-B, Lincoln Co., $270,600. C. M. Upham, highway engr.

N. C., Plymouth—Nov. 24, by City Council, H. V. Austin, mayor, concrete curbing, guttering and bituminous macadam surfacing 14,000 sq.yd. various streets. To exceed $25,000. G. J. Brooks, Beaufort, engr.

Ga., Vienna — Dec. 3, by J. W. Lytle, mayor, surfacing 17,000 sq.yd. various streets, various types. To exceed $25,000. H. S. Joudon Eng. Co., Elberton, engrs.

Alabama—Dec. 17, by State Hy. Dept., Montgomery, improving 15 mi. Davenport-Ft. Deposit Rd., State Project 6, Lowndes Co., 31.8 acres clearing and grubbing, 168,002 cu.yd. earth, 100 cu.yd. solid rock and 1,526 cu.yd. loose rock excav., 50,000 sq.yd. Bermuda grass planting, 73,101 lb. reinforcing, 105,972 sq.yd. overhaul, etc., 9.125 mi. Monroeville-Camden Rd., State Project 25 A, Monroe Co., 38 acres clearing and grubbing, 106,630 cu.yd. earth and 9,454 cu.yd. rock excav., 45,434 cu.yd. overhaul, 22,600 cu.yd. local gravel, 37,260 lb. reinforcing, etc., 7.16 mi. Florence-Killen Rd., State Project 52, Lauderdale Co., 7.72 acres clearing and grubbing, 77,000 cu.yd. earth and 3,662 cu.yd. rock excav., 60,000 sta.yd. overhaul, 29,210 lb. reinforcing, etc.; bridge on Monroeville-Camden Rd., State Project 25-A, Monroe Co., 1,384 ft. treated timber piles, 27,546 ft. treated timber structures, 33,500 lb. structural steel, 36,339 lb. reinforcing, etc. W. S. Keller, highway engr.

Louisiana—Dec. 11, by State Hy. Comm., Reymond Bldg., Baton Rouge, constructing 2.41 mi. State Project 374-A1, East Feliciana Parish, also furnishing gravel for project. W. B. Roberts, ch. engr.

Louisiana—Dec. 16 (extended date), by State Hy. Dept., Reymond Bldg., Baton Rouge, paving Federal Aid Project 102 A, Dixie-Scotland Highway, East Baton Rouge Parish. W. B. Roberts, state engr.

Michigan—Nov. 26, by State Hy. Dept. at office Comrs. Macomb Co., Mt. Clemens, grading and concrete surfacing 3.106 mi. State Trunk Line Rd. 53-13 B. G. C. Dillman, Lansing, ch. engr.

Kan., Atchinson — Dec. 12, by Clerk Atchinson Co., grading, curbing and vitr. brick or concrete paving 66,468 sq.yd., 6.211 mi. King of Trails, Federal Aid Project 100-A, 35,415 sq.yd. Federal Aid Project 112. R. D. Coleman, co. engr.

Kan., Emporia—Dec. 15, by Clerk Lyon Co., grading and gravel surfacing 8.967 mi. Federal Aid Project 260, Sect. B, 18 ft., 45,075 cu.yd. earth excav. W. S. Ruggles, Emporia, engr. Noted Oct. 9.

Kan., Ft. Scott—Dec. 11, by Clerk Bourbon Co., grading and bituminous macadam surfacing 5.979 mi. Federal Aid Project 271-A, 16 ft., and 7.165 mi. Federal Aid Project 270-A, 16 ft. Former bids rejected. B. Boyle, co. engr. Noted Oct. 9.

Kan., Garnett—Dec. 10, by Clerk Anderson Co., grading and feather edge surfacing 8.474 mi. King of Trails Rd., 18 ft., Federal Aid Project 113-B, 18,681 cu.yd. gravel, 213,607 units overhaul, 129,556 sq.yd. shaping shoulders, 2,672 ft. curbing, 1,000 cu. yd. excav. F. T. Brambrake, co. engr. Noted Oct. 23.

Kan., Lyndon—Dec. 13, by S. Danhauer, clk. Osage Co. grading, etc., 4.842 mi. Federal Aid Project 266, Sect A, 28 ft. R. Hopper, Lyndon, engr. Noted Nov. 13.

Neb., Glendive—Dec. 2, by N. France, clk. Dawson Co., improving 5.536 mi. Federal Aid Project 231, 67,395 sq.yd. 3 and 4 in. gravel surfacing, 310 cu.yd. excav., 51 cu.yd. rein.-con., etc. R. L. Cochran, Brownell Bldg., Lincoln, engr.

Missouri—Nov. 24, by State Hy. Bd., Jefferson city, grading 30,622 cu.yd. Boonville Rd. west, Cooper Co., 34,196 cu.yd. Odessa Rd. east, and 7,704 cu.yd. Concordia Rd., west, both Lafayette Co., 17,466 cu.yd. Festus-Boone Terre-Flat River Rd., 7,594 cu.yd. Boone Terre-Flat River Rd., 8,106 cu.yd. Boone Terre Rd. north and south, St. Francois Co., 15,588 cu.yd. Warrenton Rd. west, and 9,046 cu.yd. Warrenton Rd. east, both Warren Co.; 18 ft. concrete surfacing 170,003 sq.yd. Odessa Rd. east, and 40,679 sq.yd. Concordia Rd. west, both Lafayette Co., 128,610 sq.yd. Boonville Rd. west, Cooper Co., 82,308 sq.yd. Warrenton Rd. west, and 47,759 sq.yd. Warrenton Rd. east, both Warren Co., 92,222 sq.yd. Festus-Boone Terre Rd., 40,093 sq.yd. Boone Terre-Flat River Rd., and 42,803 sq.yd. Boone Terre Rd. north and south, all St. Francois Co.; 16 ft. gravel surfacing 35,467 sq.yd. Lemons Rd. north and south, and 31,904 sq.yd. Unionville Rd. north, both Putnam Co., 19,767 sq.yd. Lemons-Milan Rd., Sullivan Co.; grading and gravel surfacing 36,222 sq.yd., Shelbina-Paris Rd., Monroe Co., 20,800 sq.yd., Bloomdale Rd. north and south, St. Genevieve Co., 14,264 sq.yd. Rogersville-Fordland Rd., Webster Co.; 12 ft. gravel surfacing 13,667 sq.yd. Ava Rd. north, Douglas Co. B. H. Piepmeier, ch. engr.

Streets and Roads (Continued)

Missouri—Nov. 25, by State Hy. Dept., Jefferson City, grading, etc., 30,200 cu.yd. Sweet Springs-Boonville Rd., 9,988 cu.yd. Sweet Springs Rd. east, 8,596 cu.yd. Sweet Springs Rd. west, all Saline Co., 53,310 cu. yd. Fredericktown-Jackson Rd., 9,993 cu.yd. Fredericktown East Rd., Madison Co., 45,-424 cu.yd. Festus-Boone Terre Rd., Jefferson Co., 9,958 cu.yd. Peculiar-Harrisonville Rd., 9,946 cu.yd. Belton-Peculiar Rd., 9,938 cu.yd. Peculiar Rd. north and south, Cass Co., 22,182 cu.yd. Boonville-Rockport Rd., Howard Co., 19,962 cu.yd. Jackson Rd. west, Cape Girardeau Co., 27,302 cu.yd. St. Joseph-Cameron Rd., De Kalb Co., 8,886 cu. yd. Carrollton-Waverly Rd., Carroll Co.; 18 ft. concrete paving 159,733 sq.yd. Sweet Springs-Boonville Rd., 52,737 sq.yd. Sweet Springs Rd. east, 45,391 sq.yd. Sweet Springs Rd. west, Saline Co., 190,656 sq.yd. Fredericktown-Jackson Rd., 104,833 sq.yd. Fredericktown Rd. east, Madison Co., 239,-789 sq.yd. Festus-Boone Terre Rd., Jefferson Co., 117,113 sq.yd. Boonville-Rockport Rd., Howard Co., 104,539 sq.yd. Jackson Rd. west, Cape Girardeau Co., 52,514 sq. yd. Belton-Peculiar Rd., 52,574 sq.yd. Peculiar-Harrisonville Rd., 52,486 sq.yd. Peculiar Rd. north and south, Cass Co., 104,-683 sq.yd. St. Joseph-Cameron Rd., De Kalb Co., 46,313 sq.yd. Carrollton-Waverly Rd., Carroll Co.; grading and 16 ft. gravel surfacing 18,402 sq.yd. Shelbina Rd. south, Shelby Co. B. H. Piepmeier, ch. engr.

Mo., St. Louis—Dec. 9, by Bd. Pub. Wks., 208 City Hall, removing and resetting curbing and paving 5,155 sq.yd. Delmar Blvd., $43,600; granite curbing, concrete guttering and asphalt on concrete paving 2,950 sq.yd. Labadia Ave., $25,000; granite curbing, concrete guttering and paving with Kentucky rock or asphaltic concrete on concrete 1,490 sq.yd. Brennon Ave. $8,900, Goethe St. $16,400; granite curbing, concrete guttering and Willite on concrete paving Fyler Ave. $33,200, Utah St. $27,900; removing existing pavement and repaving with Willite on concrete 8,745 sq.yd. St. Louis Ave., $43,250; granite curbing, concrete guttering and Warrenite or Willite paving 1,325 sq.yd. Forest Park Blvd., $7,800. W. W. Horner, 300 City Hall, city engr.

Tex., Alice—Dec. 5, by R. R. Mullen, judge Jim Wells Co., grading and bridging 14.42 mi. State Highway 12, Federal Aid Project 429-H, 26 ft., $72,000; 16.1 mi. State Highway 12, Federal Aid Project 429-G, 26 ft., $108,550; 5.65 mi. State Highway 12-A, Federal Aid Project 424-C, $25,-000. L. W. S. Mantel, co. engr.

Tex., El Paso—Dec. 3, by E. B. McClintock, judge El Paso Co., grading and bridging 7.35 mi. State Highway 1, Federal Aid Project 439-B, 26 ft. $173,478. F. E. Wilson, co. engr. Noted Nov. 13.

Tex., Jacksboro—Dec. 10, by H. C. McClure, judge Jack Co., grading asphaltic macadam on sledged stone, surfacing and bridging 17.38 mi. State Highway 39, Decatur Rd., 18 ft., $311,962; 2½ in. asphaltic macadam on sledged stone 16.38 mi. State Highway 24, Graham Rd., 18 ft., $196,403. G. R. Johnston, co. engr.

Tex., Palestine—Dec. 9, by E. W. Davis, engr. Anderson Co., grading, gravel surfacing and bridging 35 mi. road from here to Tennessee Colony, and from here to Cherokee Co. line, 18 ft. $460,000.

Tex., San Benito — Dec. 10, by J. S. Brown, mayor, paving approximately 36,-000 yd. various streets. $100,000. Agar & Gentry, c/o City Hall, engrs. Noted Aug. 15.

Tex., Vernon—Dec. 12, by O. T. Warbek, judge Wilbarger Co., grading, bridging and rein.-con. surfacing 5.26 mi. State Highway 5, Federal Aid Project 451-B, 18 ft. $192,975. J. B. Nabors, Co. engr. Noted June 26.

Okla., Pawnee—Nov. 24, by G. A. Taylor, clk. Pawnee Co., liquid asphalt surfacing 63,000 yd. Tulsa Perry Rd. $30,000. A. O. Walker, Pawnee, engr.

California—Dec. 8, State Hy. Comn., Sacramento, grading 2.3 mi. road, San Bernardino Co. R. M. Morton, highway engr.

Calif., Burbank — Nov. 25, by Bd. City Trustees improving 5,900 ft. Evergreen, 1st Valley, Rose, San Jose and Valencia Aves., approximately 20,000 sq.yd. oil macadam paving, 25,000 lin.ft. sidewalks, etc. $34,-000. J. R. Rose, Burbank, engr. Noted Nov. 13.

Calif., Los Angeles—Nov. 17, by Supervs. Los Angeles Co., improving portion of Valley Rd., 870 cu.yd. excav., 4,036 sq.yd. each sub-base and shape roadbed, 2,312 ft. shape shoulders, 3,908 sq.yd. concrete paving, etc.

BIDS RECEIVED

Massachusetts—Dept., Pub. Wks., Div. Hy., Boston, plans widening River St. from Clearu Sq. to Mattapan, Hyde Park Dist. $25,000. W. F. Williams, comr.

Md., Baltimore—Sheet asphalt paving 0.55 mi. Contr. BC-46, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $48,175.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 9.93 mi. Greensburg-Clinton Highway, St. Helena Parish, from Kentwood Gravel Co., Kentwood, $70,236. Noted Oct. 23.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, Oct. 31, grading, chert and gravel surfacing 7.54 mi. Waynesboro-Hardin Co. line Rd., 18 ft., Federal Aid Project 53-A, Wayne Co., from McQuarry Bros. Constr. Co., Hopkinsville, Ky., $152,-400. Noted Oct. 9.

Michigan — State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor, grading 3.465 mi. Federal Aid Project 74, Sects. A and C, from D. Jeffrey, Saline, $20,680. Noted Oct. 30.

Michigan — State Hy. Dept. at office Comrs. Menominee Co., Menominee, grading and 18 in. stone gravel surfacing 10.132 mi. Federal Aid Project 110, from W. E. Burdeau Constr. Co., Green Bay, Wis., $159,-287. Noted Oct. 23.

Michigan — State Hy. Dept. at office Comrs. Roscommon Co., Roscommon, grading and surfacing 6.725 mi. State Trunk Line Rd. 76-8, 58,162 cu.yd. excav., 63,216 sq.yd. gravel, from Stockwell & Higgins, Harrison, $72,554. Noted Oct. 23.

Michigan — State Hy. Dept. at office Comrs. Grand Traverse Co., Traverse City, grading and concrete surfacing 5.439 mi. Federal Aid Project 129 C, from J. R. Edelman, Muskegon, $158,628. Noted Oct. 30.

Mich., Detroit — From Detroit Asphalt Paving Co., 909 Free Press Bldg., paving with 3½ in. sheet asphalt on 8 in. concrete, 5,100 sq.yd. Burnette Ave., Sect. 2 $24,389; 8,050 sq.yd. Corbett Ave. $38,369. 13,800 sq.yd. Eastlawn Ave., Sect. 2 $55,698; from M. R. Hanna Co., 1636 Dime Bank Bldg., 7,950 sq.yd. Muirland Ave. $36,293, 6,400 sq.yd. Petoskey Ave. $29,159.

Arkansas—State Hy. Comn., Little Rock, Nov. 8, improving 5.163 mi. Federal Aid Project 183-C, Road Dist. 4, Lee Co., from W. H. Denison, Cushman, $63,238.

Tex., Floresville—Wilson Co. **(e.e. means engrs. est.)** from W. T. Montgomery, 705 Alamo Bank Bldg., San Antonio, grading and surfacing with gravel and crushed rock base 9.43 mi. State Highway 81, Federal Aid Project 440-B, 16 and 18 ft., $158,560, e. e. $184,456, grading, surfacing with macadam base and bituminous topping 9.06 mi. State Highway 81, Federal Aid Project 440-C, 18 ft., $203,191, e. e. $230,622, grading and surfacing with 8 in. gravel and 4 in. waterbound macadam base, with 1 in. rock asphalt topping 12.12 mi. State Highway 81, Federal Aid Project 440-A, 18 ft., $189,365, e. e. $223,-035; from J. P. Foty, Vernon, scarifying and reshouldering, rein.-con. surfacing 3 mi. (Bates Section) New Boston-Texarkana Highway, Federal Aid Project 415-A, 18 ft., $78,792, e. e. $87,230. Noted Oct. 23.

Calif., Inglewood—City Trustees, improving Ash Ave., 186,027 sq.ft. grading, 117,-850 sq.ft. 5 in. Willite paving, etc., from G. H. Oswald, 366 East 58th St., Los Angeles, $39,042. Noted Oct. 23.

Calif., Los Angeles—Supervs. Los Angeles Co., **(e.e. means engrs. est.)**, grading, curbing and paving 10,746 ft. John St. from Cristich, Mandic & Cristich, 309 Douglas Bldg., $39,204, e.e. $34,586; grading and paving 2,974 ft. Chevy Chase Dr., from Basich Bros. Co., 2103 West 28th St., $22,-937, e.e. $24,467; grading, curbing and concrete paving Washington Blvd., from Wells & Bressler, 3 California Bank Bldg., Santa Ana, $60,867, e.e. $56,776. Noted Oct. 23.

Calif., San Diego — A. H. Wright, city clk., Nov. 10, from G. R. Daley, 4430 Boundary St., improving Canon St., 5,112 cu.yd. excav., at $0.60 per cu.yd., 123,420 sq.ft. 4 in. concrete paving $0.01, 4,011 lin. ft. concrete curb $0.169, etc., total $28,487; from Griffith Griffith Co., 25 14th St., improving Juniper and 31st Sts., 125,498 sq. ft. 1.5 in. asphaltic concrete on 4 in. concrete $0.208 per sq.ft., 1,920 sq.yd. concrete paving $0.20, 5,531 sq.ft. concrete sidewalks $0.23, 1,180 lin.ft. concrete curbs $0.67, etc., total $30,809. Noted Oct. 30.

Calif., Santa Cruz — City Council improving South Branciforte Ave., 110,235 sq.ft. 5 in. concrete paving, 1,479 lin.ft. concrete curb, etc., from Granite Constr. Co., Watsonville, $24,684. Noted Nov. 13.

Calif., Stockton — Supervs. San Joaquin Co., improving 6 mi. Bixler Rd., 6,973 cu. yd. crushed rock, from W. Moreing Vine St., at $3.38 per cu.yd.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Div. Highways, State House, Boston, bituminous macadam paving 25,000 ft. highway in Lakeville, to Z. L. Canedy, Lakeville, Engrs. est. $25,000. Noted Nov. 6.

N. Y., Brooklyn—E. Riegelm[illegible], boro pres., Boro Hall, grading, curbing and flagging Dahill Rd. and East 32[illegible] St. to Simonelli & Son, 26 Conselyea St., $2,706 and $3,750 respectively; asphalt paving Dahill Rd. and East 32nd St., to [illegible]rooklyn Alcatraz Co., 407 Hamilton Ave., $14,694 and $9,254 respectively, 48th St., to Cleveland Trinidad Co., Flushing, $9,16[illegible]. Noted Nov. 6.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., to Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., sheet asphalt repaving Hempstead Ave. $51,147, to A. A. Johnson Corp., Queens Blvd., Jackson Ave. from Trains Meadow Rd. $47,900; to Uvalde Asphalt Paving Co., 1 Bway., New York, grading, curbing, sidewalks and asphalt paving Ralph St. $11,451, Woodbine St. $14,335 116th St., $7,553; to C. Kurth, 9519 126th St., Richmond Hill, grading, curbing and sidewalks on 116th St $5,811. Noted Nov. 13.

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., granite block repaving 11th Ave., to J. Meehan & Son, 74 Cortlandt St., $176,857, 59th St., to P. J. Kearns Contg. Co., 2306 Creston Ave., $36,-388; curbing, flagging and paving with 2 in. stone filled sheet asphalt Pinehurst Ave., to Interboro Asphalt Co., 2306 Creston Ave., $40,987. Noted Nov. 13.

Maryland—State Rds. Comn., Baltimore, concrete paving 1.7 mi. Contr. A-21, Allegany Co., to H. W. Kaylor, 106 Arcade Bldg., Hagerstown, $79,293. Noted Oct. 30.

Md., Baltimore — Sheet asphalt paving 0.55 mi. Contr. BC-46, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $48,175. Noted Nov. 20.

Alabama—State Hy. Comn., Montgomery, gravel surfacing 18 mi. Hurtsboro-Seale Rd., 20 ft., Russell Co., to W. H. Pattie, 2509 15th Ave., N., Birmingham, $139,048, engrs. est. $132,000; grading, etc., above road, to J. R. and J. B. Miller, Baconton, Ga., $113,525, engrs. est. $115,000. Noted Oct. 23.

Alabama—State Hy. Dept., Montgomery, grading and top soil surfacing 17.128 mi. Roanoke-Wedowee Rd., State Project 49, Randolph Co., to Hicks Constr. Co., Marion, $126,511. Noted Oct. 23.

Miss., Woodville — Wilkinson Co., improving 12.882 mi. Stephenson-Buffalo Bridge Rd., 93,977 cu.yd. excav., 7,693 cu. yd. borrow, 15,118 cu.yd. gravel 1 mi. haul, 14,675 units overhaul, and 2.273 mi. Foster Creek-Rosette Rd., 30,773 cu.yd. excav., 13,-805 cu.yd. borrow, 11,503 lb. reinforcing, 2,666 cu.yd. gravel, etc., to B. H. Bass, Hazelhurst, $57,932 and $15,616 respectively. Noted Oct. 30.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, **(F. A. P. means Federal Aid Project, S. P. means State Project)**, grading, etc., 9.51 mi. F. A. P. 51-A, Madison Co. line Rd., 18 ft., F. A. P. 51-B, Carroll Co., to J. Floyd, Barnsville, Miss., $94,-792; 6.58 mi. Laconia-Somerville Rd., 18 ft., F. A. P. 19-C, Fayette Co., to C. J. McFarlin, Keeling, $44,880; 11.41 mi. Greenville-Washington Co. line Rd., 18 ft., F. A. P. 44-A, Greene Co., to Shea Bros., Knoxville, $89,206; 11.51 mi. Kingston-Loudon Co. line Rd., 18 ft., F. A. P. 45-A, Roane Co., to Scruggs & Marcum Constr. Co., Knoxville, $107,543; 10.04 mi. Gates-Ripley Rd., F. A. P. 39-C, and 6.05 mi. Dyer Co. line-Gates Rd., 18 ft., F. A. P. 39-B, both Lauderdale Co., to S. R. Hall, Newbern, Tenn., $69,245 and $27,791 respectively; 4.39 mi. Laconia-Hardeman Co. line Rd., 18 ft., F. A. P. 19-B, Fayette Co., to Feinnell & Toothaker Co., Tuscaloosa, Ala., $29,815. Noted Nov. 13.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, grading, chert and gravel surfacing 7.54 mi. Waynesboro-Hardin Co. line Ry., 16 ft., Federal Aid Project 53-A, Wayne Co., to McQuary Bros. Constr. Co., Hopkinsville, Ky., $152,399. Noted Oct. 9.

Tenn., Nashville—City will widen and pave, etc., 7 blocks Church St., from 13th to 20th Aves., by day labor. W. W. Southgate, City Hall, engr. Noted Aug. 7.

Kentucky—State Hy. Dept., Frankfort, **(S. P. means State Project, F. A. P. means Federal Aid Project)**, grading, etc., 3.581 mi. Richmond-McKee Rd., 24 and 28 ft., S. P. 30-A, Madison Co., to H. D. Tye & Son, Beechwood, $91,666, 15.413 mi. Richmond-McKee Rd., 24 and 28 ft., S. P. 30-A, Jackson Co., to T. W. Miller Constr. Co., Youngstown, O., $214,726, 13.185 mi. Louisville-Paducah Rd., 24 and 30 ft., F. A. P. 119, Crittenden Co., to Costella Bros., Henson Bldg., Knoxville, Tenn., $123,510, 17.516 mi. McKee-Pineville Rd., 24 and 28 ft., S. P. 30-A, Clay Co., to Garrard & Walker, Manchester, $346,470, 5.985 mi. Louisville-Paducah Rd., F. A. P. 105-B, Daviess Co., to Rasche & Rasche, DuBois, Ind., $51,982; waterbound macadam surfacing 15.533 mi.

Streets and Roads (Continued)

Louisville-Paducah Rd., 16 ft., S. P. 8-C, Breckenridge Co., to R. B. Tyler Co., 114 South 4th St., Louisville, $146,319; rock asphalt surfacing 5.809 mi. Williamsburg-Jellico Rd., 16 ft., S. P. 35-C, Whitley Co., to J. L. Humbard Co., Knoxville, $185,270. Noted Nov. 6.

O., Canton—Stark Co., brick paving 4 mi. Harrisburg-Westville Rd., 18 ft., to Urban Bros. Constr. Co., Canton, $58,764. Noted Oct. 16.

Michigan — State Hy. Dept., Lansing, grading State Trunk Line Rd. 25-8, A, B and C, Schoolcraft Co., to Hill & Belknap, East Tawas, $45,147.

Michigan — State Hy. Dept., Lansing, grading 0.303 mi. Federal Aid Project 50, B3, Monroe Co., to Ferguson & Edmonson, Keystone Bldg., Pittsburgh, Pa., $66,733.

Michigan — State Hy. Dept. at office Comrs. Wayne Co., Detroit, grading and concrete surfacing 21,279 sq.yd. Federal Aid Project 82 A1, and 71,285 sq.yd. Federal Aid Project 82 A2, to Wayne Co. Rd. Comn., Detroit, $57,076 and $185,637 respectively.

Mich., Detroit—To M. R. Hanna, 1636 Dime Bank Bldg., paving with 3½ in. sheet asphalt on 8 in. concrete, 7,050 sq.yd. Anglin Ave. $32,998, 630 sq.yd. Main Ave., Sect. 2 $3,255; to Detroit Asphalt Paving Co., 909 Free Press Bldg., 7,100 sq.yd. Edward St. $30,597, 1,800 sq.yd. Eagle Ave. $8,102, 3,100 sq.yd. Kentucky Ave., Sect. 4 $14,803, 6,100 sq.yd. Lakepointe Ave., Sect. 1 $29195, 14,050 sq.yd. Plymouth Rd., Sect. 2 $67,043, 7,620 sq.yd. Sherwood Ave. $38,058, 2,850 sq.yd. Wheeler Ave. $12,622. Noted Nov. 6.

Mich., Detroit—To Otis Cement Constr. Co., 806 Hammond Bldg., paving with one course 6 in. concrete, 2,160 sq.yd. Alley 2080 $5,400, 1,960 sq.yd. Alley 2081 $4,908, 1,600 sq.yd. Alley 2086 $3,997, 1,510 sq.yd. Alley 2075 $3,767, 1010 sq.yd. Alley 2076 $2527, 1,377 sq.yd. Alley 2077 $3,442, 498 sq.yd. Alley 2079 $1,294; to Wolverine Constr. Co., 2152 McClellan Ave., 1,880 sq. yd. Alley 2082 $4,523, 1,180 sq.yd. Alley 2083 $4,599, 1,660 sq.yd. Alley 2085 $3,990, 1,330 sq.yd. Alley 2087 $3,277, 1,360 sq.yd. Alley 2088 $3,300; to McKenna Trucking Co., 3559 Holcomb Ave., 1,840 sq.yd. Alley 2074, $4,517, 1,240 sq.yd. Alley 2078 $3,105.

Kan., Atwood—Rawlins Co., grading, etc., 6.117 mi. Federal Aid Project 261-A, to A. L. Cook, Ottawa, $36,423. Noted Oct. 9.

Kan., Holton—Jackson Co., grading, etc., 8.095 mi. Federal Aid Projects 251-A and 251-D, to Ziegler Bros., Junction City, $70,569. Noted Oct. 16.

Kan., Wichita—Surfacing various streets, to Cook & Cole, Ardmore, Okla., 9,620 sq. yd. 3 in. brick on concrete, $36,912; to Globe Constr. Co., 1069 North Water St., Wichita, 36,692 sq.yd. concrete at $1.79 and 18,297 cu.yd. excav. $0.87 and $0.90; to H. T. Ritchie Paving Co., 124 North Fountain St., 11,370 sq.yd. asphaltic concrete $2.54, 8,897 sq.yd. sheet asphalt $2.76 and $2.70, 6,454 cu.yd. excav. $0.90; to F. D. Whaley, Wichita, 7,774 ft. combined curb and gutter $0.84, 155 ft. curb $0.40 and 235 ft. gutter $0.50; to M. H. Long, 1124 South Wichita St., 8,481 ft. combined curb and gutter $0.80, 822 ft. curb $0.40, and 540 ft. gutter $0.50; to W. D. Hurst, 326 Madison St., 2,341 ft. combined curb and gutter $0.84, 50 ft. curb $0.40, and 50 ft. gutter at $0.50; to Lefever Bros., 545 Pennsylvania Ave., 4,293 ft. combined curb and gutter $0.84 and $0.79, 135 ft. curb $0.40 and 156 ft. gutter $0.50; to J. A. Jones, Wichita, 3,637 ft. combined curb and gutter $0.84, 50 ft. curb $0.40, and 50 ft. gutter $0.50; to W. G. Branch, 244 South Erie St., 2,812 ft. combined curb and gutter $0.84 and $0.87, 212 ft. curb $0.40, and 140 ft. gutter $0.50; to F. G. Kensler, 1558 South Water St., 2,769 ft. combined curb and gutter $0.84, 75 ft. curb $0.40, and 75 ft. gutter at $0.50.

Tex., Dallas—F. G. Jester, Southwestern Life Bldg., grading and graveling, etc., 6 mi. roads for new residence development, to D. R. Moberly, 2905 Reagan St. Engrs. est. $100,000.

Oklahoma — State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, e. e. means engineers estimate, and S. A. P. means State Aid Project)**, to M. A. Swatek & Co., 519½ West Main St., Oklahoma City, grading and surfacing 7 mi. Ardmore-Lone Grove Rd., F. A. P. 41, Carter Co., 74,000 sq.yd. waterbound macadam, 55,000 cu.yd. earth and 4,500 cu.yd. rock excav., $76,455, e. e. $80,000, and 2.2 mi. Norman-Tecumseh Rd., F. A. P. 173-A, Cleveland Co., 23,231 sq.yd. gravel, 11,500 cu.yd. excav., $28,423, e. e. $25,000, to J. J. Harrison, 906 West 13th St., Oklahoma City, 2 mi. Altus-Hollis Rd., S. A. P. 138-A, Jackson Co., 23,000 sq.yd. gravel, 17,000 cu.yd. excav., $25,951, e. e. $27,000, to Grudgel & McVay Stillwater, 13.3 mi. Medford-Enid Rd., F. A. P. 148 C, Garfield Co., 27,460 sq.yd. concrete, 69,110 cu.yd. earth, and 1,800 cu.yd. rock excav., 37,000 lb. reinforcing, etc., $122,337, e. e. $125,000, to Johnson Bros., Tishomingo, 2.5 mi. Woodville-Red River Rd., State Rd. 23, S. A. P. 23, Marshall Co., 26,600 sq.yd. gravel, 17,700 cu.yd. earth and 600 cu.yd. rock excav., $27,159, e. e. $28,000, 8.3 mi. Kingston-Woodville Rd., F. A. P. 129, Marshall Co., 87,000 sq.yd. gravel, 57,000 cu.yd. earth and 1,800 cu.yd. rock excav., $54,081, e. e. $57,000, and 5.3 mi. Sulphur-Carter Co. line Rd., S. A. P. 31, Murray Co., 56,000 sq.yd. gravel, 32,500 cu. yd. earth and 1,600 cu.yd. rock excav., $36,271, e. e. $40,000, to Maney Bros., Empire Bldg., Oklahoma City, 4.75 mi. Albert Pike Highway, S. A. P. 66, Wagoner Co., 46,000 sq.yd. gravel, 32,000 cu.yd. excav., $57,235 e. e. $60,000; to Green-Beekman Co., 519 West Main St., Oklahoma City, grading 8.67 mi. Ramona-Tulsa Co. line Rd., 30 ft., F. A. P. 177-B, Washington Co., 62,000 cu. yd. excav., $28,758, e. e. $30,000, to Hamilton Constr. Co., Bartlesville, 9.6 mi. F. A. P. 183, Rogers Co., 30 ft., 85,000 cu.yd. excav., $41,814, e. e. $45,000, to Ward-Brooke Co. Tonkawa, 6 mi. Manford-Keystone Rd. F. A. P. 127, Creek Co., 30 ft., $26,385, e. e. $30,000. Noted Nov. 6.

Tex., Houston—Asphalt paving Carolina St. from Franklin to Pierce Sts., to Uvalde Rock Asphalt Co., 829 Bankers Mortgage Bldg., $126,279, engrs. est. $135,000; Vernon St., to S. Shambaugh, 1401 Dowling St., engrs. est. $60,000. Noted Nov. 6.

Tex., San Antonio—Bexar Co. will gravel 3 mi. Gonzales Rd. from end present pavement to County line, by day labor. $25,000. A. C. Pancoast, Co. engr. Noted Oct. 23.

Okla., Ponca City—Improving 6 blocks Cherry St., 3,000 lin.ft. curb, 2,100 cu.yd. excav., 3,800 sq.yd. vertical fibre brick paving, etc., to R. H. Baldwin, 229 East Grand St., Ponca City, $25,316. Engrs. est. $28,816.

Calif., Huntington Beach — Sidewalks, curbing, street lighting system and paving Orange Ave. between Lake Ave. and 11th St. et al., to G. M. Sauter, Huntington Beach, $29,819. Engrs. est. $33,500.

Calif., Inglewood—City Trustees improving Highland Blvd., 126,960 sq.ft. grading, 123,638 sq.ft. 6 in. concrete paving, etc., to Kuhn Bros., 408 Center St., Manhattan Beach, $29,620. Noted Oct. 23.

Calif., Los Angeles — Improving Pasa Hambra Blvd., Tract 7784, to Hall-Johnson Co., Main Office P. O. Box 365, $246,999; Mines Ave. between Mirasol and Lorena Sts., to Griffith Co., Railway Bldg., $89,780. Noted Nov. 13.

Calif., Oakland—Alameda Co., concrete paving Byron-Bethany Rd., to R. J. Blanco, 2729 Grove St., $35,927. Noted Oct. 2.

Calif., Roseville—Improving Vernon and Main Sts., to Pacific States Constr. Co., Call Bldg., San Francisco, approximately $45,500. Noted Nov. 13.

Calif., San Jose—Supervs. Santa Clara Co. will improve Coffin Rd., 13,563 ft. grading and surfacing, 326,488 sq.ft. roadway waterbound macadam, 8,800 cu.yd. water materials, by day labor, under supervision of R. Chandler, co. surv. Former bids rejected. Noted Nov. 13.

Calif., Stockton — Supervs. San Joaquin Co., to Drey & Holden, Lodi, improving Grant Line Rd., 6,700 cu.yd. grading, 8,450 tons road gravel, $16,706, Beckman Rd., 2,530 cu.yd. grading, 4,973 tons base and 1,467 tons top course gravel, 680 tons dressing for oil, 560 bbls. asphalt oil, $18,809; West Side River Rd., 11,000 cu.yd. grading, 8,000 tons gravel, etc., $22,786, Brichetto Rd., 5,390 yd. grading, 5,900 tons gravel. $11,633.

Ont., Toronto—East York Twp., Municipal Yard, Sammon Ave., paving about 8,500 sq.yd. Dawes Rd., to Warren Bituminous Paving Co., 43 University Ave., $34,948. Engrs. est. $35,000.

Ont., Toronto—York Twp. asphalt paving 18,000 sq.yd. various streets, to Construction & Paving Co., Ltd., Confederation Life Bldg., $83,600. Engrs. est. $80,000.

Buildings—Industrial

PROPOSED WORK

Me., Oldtown—Factory—Wing & Eagle Box Co. plans factory. $75,000.

Mass., Watertown — Factory — Jolly Ice Cream Co., having plans prepared by W. H. Haines, 32 Riverview Ave., Waltham. 1 and 2 story factory, Main and Westminster Sts. $40,000.

Conn., Waterbury — Manufacturing — M. Spirt, 72 Canal St., had plans prepared by C. J. Bailey, 63 Bank St., 4 story and basement, 38 x 50 ft., brick and timber, plain foundation, Canal St. $40,000.

N. Y., Brooklyn—Factory—Brooklyn Fur Dressing Co., 50 Metropolitan Ave., having plans prepared by Levy & Berger, archts. and engrs., 375 Fulton St., 3 story, brick and steel, plain foundation, Scholes St. $75,000.

N. Y., Brooklyn—Factory—Electric Shoe Mfgrs., c/o T. Goldstone, archt. and engr., 50 Graham Ave., had plans prepared brick, steel and stone, plain foundation, Stone Ave. $70,000.

N. Y., Brooklyn—Service—C. E. Berge archt. and engr., 25 West 34th St., New York, preparing plans 5 story, rein.-con., brick and steel, plain foundation, Atlantic Ave., here. $400,000. Owner's name withheld.

N. Y., Buffalo—Factory—Natl. Aniline Chemical Co., 351 Abbott Rd., had plans prepared 2 story, 90 x 150 ft., brick addition. $50,000.

N. Y., Buffalo — Plant — Amer. Radiator Co., 1 Austin St., had plans prepared rein.-con and steel plant, Austin St. $60,000.

N. Y., Buffalo—Laboratory—E. Harrington, 425 Crescent Ave., plans laboratory. $100,000.

N. Y., New York—Printing Plant, etc.—M. B. Brown Printing Co., 39 Chambers St., having plans prepared by D. M. Oltarsh, archt. and engr., 36 West 44th St., 15 story, brick, steel and stone, plain foundation, Lafayette and Duane Sts.

N. Y., New York—Service—L. A. Sheinart, archt. and engr., 194 Bowery, preparing plans 2 story, rein.-con., brick and steel, plain foundation, 401 Pearl St. $100,000. Owner's name withheld.

Pa., Phila.—Factory—E. Hubschman & Sons, Inc., Oriana and Willow Sts., having plans prepared by Ballinger Co., 12th and Chestnut Sts., 4 story, 62 x 112 ft., addition to 1 story building, and 1 story and basement 40 x 115 ft. addition, rein.-con. and brick, plain foundation.

Ill., Canton—Ice Plant—Central Illinois Pub. Serv. Corp., 9th and Adams St., Springfield, soon takes bids 54 x 130 ft. ice plant, 25 ft. high, rein.-con. and brick. $50,000. Private plans.

Tex., Bryan—Ice Plant—H. O. Ferguson, c/o Court House, soon takes bids rein.-con. and brick plant. $65,000. Private plans.

Tex., Canadian—Light Plant—Voted $65,000 bonds electric light plant. A. Knollenberg, mayor. Noted Oct. 23.

Que., Port Alfred—Factory—Port Alfred Pulp & Paper Corp., soon takes bids extending mill. $1,000,000.

BIDS DESIRED

R. I., Apponaug—Mill—Narragansett Cotton Mills, Inc., taking bids, 1 story and basement, 65 x 100 ft., brick and timber, plain foundation. $40,000.

Pa., Johnstown—Theatre—Jan. 1, by G. Panagotacos, Lincoln St., 7 story and basement, 80 x 140 ft., brick, steel and concrete, Main St. $500,000. H. C. Hodgens, Inc., 130 South 15th St., and A. D. Hill, Phila., archts.

Pa., Kennett Square—Plant—Nov. 24, by W. Steele & Son, engrs., 219 North Broad St., Phila., 1 story and basement, rein.-con. and brick, plain foundation, here, for Amer. Road Machine Co., Commercial Trust Bldg., Phila.

Wis., Astico—Plant—Astico Milk Products Co., Astico, taking bids 1 story and basement, 60 x 132 ft., brick and timber, plain foundation. $40,000. F. A. Fielder, 118 East 26th St., Chicago, Ill., archt.

Calif., San Francisco—Factory—S. Heiman, archt., 57 Post St., taking bids 5 story, rein.-con., Mission and Bond Sts., for Alcone Knitting Co., 447 Washington St. $175.000. Noted Oct. 16.

CONTRACTS AWARDED

Mass., Dorchester (Boston, P. O.)—Repair and Service Garage—S. Shoolman, Tremont Bldg., Boston, 1 story, 80 x 300 ft., 1256 Blue Hill Ave., to P. Rich & Son, 43 Tremont St., Boston. Archts. est. $100,000.

Mass., Holyoke—Factory—B. F. Perkins & Son, c/o Lockwood Green Co., archts., 24 Federal St., Boston, 4 story and basement, 76 x 154 ft., rein.-con. and brick, to Casper-Ranger Constr. Co., 20 Bond St. Archts. est. to exceed $40,000. Noted Oct. 30.

Mass., Pepperell — Factory — Nashua Paper Co., Nashua, N. H., 1 and 2 story, brick and timber, here, to H. L. Shattuck, Inc., Manchester, N. H. Archts. est. $100,000.

Mass., Woburn — Plant — Woburn Degreasing Co., Bedford St., S. O. Rouke,

Buildings—Industrial (Continued)

pres., 1 story, 55 x 100 ft., and 55 x 75 ft., brick plant, Willow and Burlingame Sts., to D. H. Walker Co., 10 Fletcher St., Lowell. Archts. est. $100,000 incl. equipment. Noted Oct. 30.

N. Y., Brooklyn—Machine Shop—Todd Ship Yards Corp., 25 Bway., New York, 1 story, brick and steel, plain foundation, 134 24th St., here, to Tilt-Hargon Co., 90 West Bway., New York. Archts. est. $60,000.

N. Y., Brooklyn—Plant—Brooklyn Daily Times, 4th and Atlantic Aves., 8 story, brick, steel and stone, Atlantic and Flatbush Aves., to W. Kennedy Constr. Co., 215 Montague St. Archts. est. $500,000. Noted Sept. 18.

N. Y., Long Island City—Plant—International Harvester Motor Truck Co., Grand Central Terminal, rein.-con., brick and steel, plain foundation, 13th and Hamilton Sts., to Neinken Mertz Constr. Co., 166 Montague St., Brooklyn. Archts. est. $250,000. Noted Oct. 9.

Md., Baltimore—Mill—Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburgh, Pa., 5 story, 75 x 158 ft., concrete and brick, plain foundation, 5th Ave. near Baltimore & Ohio R.R., here, to B. A. Groah Contr. Co., 847 West North St., Pittsburgh, Pa., $150,000.

O., Cleveland — Factory — B. Folkman, 1474 St. Clair Ave., 2 story, 92 x 128 ft., brick and steel, 1408 East 25th St., to Rudolph Constr. Co., 10532 Garfield Ave. Archts. est. $40,000. Noted Sept. 25.

O., Cleveland — Plant — Fuller Cleaning Co., W. M. Theobald, pres., 7606 Carnegie Ave., 4 story and basement, 45 x 100 ft., brick and rein.-con., 7606 Carnegie Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $150,000. Noted Oct. 30.

O., Wickliffe — Plant — Clarke Chemical Co., 60 x 180 ft., 40 x 42 ft., and 25 x 40 ft. steel plant, to Austin Co., 16112 Euclid Ave., Cleveland, approximately $50,000.

Ill., Macomb—Plant—Amer. Steel Product Co., 1 story 28 x 112 ft., concrete and steel addition, to Truscon Steel Co., 165 East Erie St., Chicago.

Wis., Berlin—Cannery—Fuhremann Canning Co., Berlin, will build 2 story and basement, 40 x 70 ft., main factory, 2 story, 50 x 100 ft. warehouse, and 32 x 40 ft. boilerhouse, brick and timber, plain foundation by day labor. Archts. est. $75,000. Noted Oct. 2.

Wis., Green Bay—Plant—Reimer Bros., 1372 Main St., 2 story and basement, 50 x 82 ft., brick and concrete addition, plain foundation, to E. De Bauche, Eastman Ave., Green Bay. Archts. est. $40,000.

Wis., Milwaukee — Factory — Babcock Concrete Block Co., 1489 Holton St., 2 story, 42 x 64 ft., concrete blocks, plain foundation, to J. Shekoski, Port Washington Ave., Milwaukee. Archts. est. $40,000. Noted Aug. 7.

Wis., Plymouth—Plant—Plymouth Refrigerating Co., 10 story, 62 x 70 ft., brick and concrete addition, plain foundation, to H. Van Wagner, Plymouth. Noted Nov. 13.

Wis., Racine—Factory—Harvey Spring & Forging Co., 17th and Murray Sts., 1 story, 100 x 146 ft., brick and steel addition, plain foundation, 17th St., to Nelson & Co., Janes Block; steel, to Wisconsin Bridge & Iron Co., North Milwaukee. Archts. est. $50,000.

Wis., Viroqua—Cold Storage—Douglas Produce Co., Wonewoc, will build 2 story and basement, 45 x 70 ft., brick and tile, plain foundation, by day labor. Archts. est. $40,000. Private plans.

Wis., Waukesha—Factory—Quality Aluminum Casting Co., Lincoln Ave., 1 story, 102 x 150 ft., brick and steel addition, plain foundation, Lincoln Ave., to G. Ward & Son, 130 South West Ave. Noted Oct. 16.

Minn., Duluth—Factory—F. W. Hoch, mgr. Acme Match Corp., Lyceum Bldg., general contract 2 story and basement, 89 x 146 ft., rein.-con. and brick, plain foundation, 40th Ave. and Traverse St. W., to Carlstad Bros., Builders Exch. Bldg., $49,000.

Mo., St. Louis—Bakery—Kroger Bakery & Grocer Co., Tiffany and Vista Aves., 2 story and basement, 24 x 24 ft., brick and rein.-con. addition, to Grewe Constr. Co., 941 Syndicate Trust Bldg. Archts. est. $40,000.

Tex., Sugarland—Char House—Imperial Sugar Co., Inc., rein.-con. and brick, plain foundation, to D. P. Dobinson, 125 East 46th St., New York City. Archts. est. $800,000.

Calif., Los Angeles—Cannery—Shauer Bros., c/o I. W. Wolfe, West 71st St., canning factory, 39th St. and Santa Fe Ave., to MacDonald & Kahn, Spring St., Arcade Bldg. Archts. est. $350,000.

Calif., Los Angeles—Factory—Monarch Screen & Mfg. Co., East 39th St., 1 story, 75 x 150 ft., timber, Central Ave., to Hamm & Grant, Inc., 607 Ferguson Bldg.

Calif., Los Angeles — Plant — Straube Printing Co., 1044 South Olive St., 1 story, 50 x 125 ft., brick, West 12th St., to S. N. Benjamin, 2423 Vineyard Ave., $40,000 or more.

Calif., Los Angeles—Plant—E. H. Metz, 1245 Formosa Ave., Hollywood, 1 story, 60 x 100 ft., timber and corrugated iron, Roslyn St., here, to C. H. Metz., 1245 Formosa Ave., Hollywood.

Calif., Oakland—Plant—Ventura Refining Co., 2nd and Brannan Sts., San Francisco, three 1 story, brick and concrete buildings. 19th Ave., to H. J. Christensen, 505 17th St. $80,000.

Calif., San Francisco — Plant — Bankers Printing Co., 535 Sacramento St., 1 story and basement, 50 x 137 ft., rein.-con., Montgomery St., to Industrial Constr. Co., 815 Bryant St., $42,350. Noted Oct. 23.

Calif., San Francisco—Factory and Loft—G. A. Clough, 2 story, concrete, Hawthorne and Folsom Sts., to J. H. Hjul, 122 Russ St., $43,000. Monotype Co., 560 Mission St., lessees.

Buildings—Commercial

PROPOSED WORK

N. H., Nashua—Nurses Home and Hospital—Nashua Memorial Hospital, having plans prepared by Stevens & Lee, 99 Park St., Boston, Mass., 3-story and basement, brick, nurses home, $200,000, and 2-story and basement, terra cotta and stucco hospital addition $150,000. P. W. Kenway, 248 Boylston St., Boston, Mass., engr.

Mass., Boston—Garage—Syndicate c/o E. N. Adams, archt., 86 Everett St., Arlington, having sketches made 3 story and basement, 30,000 sq.ft. floor space, rein.-con. brick and steel. To exceed $200,000.

Mass., Holyoke—High School—School Com., having sketches made by McLaughlin & Burr, 88 Tremont St., Boston, 2 story Junion high school. $150,000.

Mass., Lexington—Church and Parish—First Baptist Church Society, plans addition to church and parish house. $150,000. Engineer and architect not selected.

Mass., Quincy (Ind. Branch Boston)—Parish—Christ Episcopal Church, c/o H. K. Bartow, pastor, having plans prepared by G. W. Chickering, 6 Beacon St., Boston, 2 story and basement, 40 x 135 ft., granite and terra cotta parish house. $150,000.

R. I., Pawtucket—High School—School Dept., City Hall, had plans prepared by R. C. N. Monahan, 255 Main St., 3 story and basement, brick and steel, plain foundation, Exchange St. $250,000.

R. I., Providence — Church — Second Church of Christ Scientist making plans 1 story and basement, Elmwood Ave. $150,000. Private plans.

Conn., New Haven—Apartment—A. N. Sasso, 116 Ellsworth Ave., having plans prepared by J. Della Valle, 341 State St., 5 story and basement, 68 x 186 ft., brick and timber, plain foundation, Elm St. $150,000.

Conn., New Haven — Theatre — Bassett Bros., 39 Centre St., having plans prepared by J. Weinstein, Metropolitan Bldg., brick and steel, plain fonudation, Whalley Ave. $150,000.

N. Y., Brooklyn — Market — Dept. Pub. Markets, Municipal Bldg., New York, having plans prepared Wallabout Market, rein.-con., brick and steel, plain foundation, here. $500,000. Private plans.

N. Y., Brooklyn—Nurses Training School—Brownsville & East New York Hospital, 16 Hegeman Ave., soon takes bids 3 story, 100 x 125 ft., brick, steel and stone, plain foundation, Hegeman Ave. $250,000. Cohn Bros., 361 Stone Ave., archts. and engrs.

N. Y., Buffalo — Church — Ontario St. United Presbyterian Church, Ontario St. and Gallatin Ave., plans new church. $150,000. Engineer and architect not selected.

N. Y., Buffalo—Home—Y.M.C.A., 10 Niagara Sq., plans home, Worth St. $200,000. Engineer and architect not selected.

N. Y., Lynbrook—School—St. Raymond School, W. J. McKenna, pastor, Atlantic Ave., having plans prepared by E. P. Lynch, 345 5th Ave., New York City, 2 story, brick, steel and stone, plain foundation, $200,000.

N. Y., New York—Apartment—The 38 East 85th St. Corp., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., having plans prepared 12 story, 100 x 100 ft., brick, steel and stone, plain foundation, Madison Ave. and 85th St. $750,000.

N. Y., New York—Apartment—The 791 Park Ave. Corp., c/o G. and E. Blum, archts., 505 5th Ave., having plans prepared brick, steel and stone, plain foundation, Park Ave. and 74th St. $800,000.

N. Y., New York—Bank and Office—Harriman Natl. Bank, 44th St. and 5th Ave., plans brick, steel and stone, plain foundation, 44th St. and 5th Ave. $5,000,000. G. and E. Blum, 505 5th Ave., archt.

N. Y., New York—Clubhouse—Na[illegible] Town & Country Club, 17 East 42nd St., having plans prepared by G. B. Post & Sons, 101 Park Ave., brick, steel and stone, plain foundation. $2,000,000.

N. Y., New York — Hospital — [illegible] Hospital, c/o J. H. Scheier, archt., 236 West 55th St., having plans prepared 12 story, 100 x 100 ft. brick, steel and stone, plain foundation, 220 East 15th St. $1,000,000.

N. Y., New York — Hospital — Harlem, Bellvue & Allied Hospitals, J. McGrath, pres., 24th St., having plans prepared by Starrett & Van Vleck, 8 West 40th St., brick, steel and stone addition, plain foundation, Lenox Ave. and 135th St. $150,000.

N. Y., New York — Nurses Home — St. Vincents Hospital, 12th St. and 7th Ave., soon takes bids 13 story, brick, steel and stone nurses home, plain foundation, $750,000. I. E. Ditmars, 111 5th Ave., archt. Noted Oct. 30.

N. Y., New York—Office—A. Greenbaum & N. Wilson, c/o Polhemus & Coffin, archts. and engrs., 15 East 40th St., having plans prepared 14 story, 25 x 150 ft. brick, steel and stone, plain foundation, Madison Ave. and 37th St. $2,000,000.

N. Y., New York—Schools—Bd. Educ., 500 Park Ave., soon takes bids addition to P. S. 21, Elizabeth St., $750,000; P. S. 81, Riverdale Ave. and 255th St., $450,000; Theodore Roosevelt High School, East 189th St. and Washington Ave., 4 story, 350 x 415 ft., $3,500,000, all brick, steel and stone, plain foundations. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, engr. and archt.

N. Y., New York—Store—J. McCutcheon & Co., 34th St. and 5th Ave., soon takes bids 12 story, brick, steel and stone, plain foundation, 49th St. and 5th Ave. $3,500,000. Starrett & Van Vleck, 8 West 40th St., archt. Noted Oct. 23.

N. Y., White Plains—School—Bd. Educ. having plans prepared by Tooker & Marsh, 101 Park Ave., New York City, brick, steel and stone, plain foundation, Mamaroneck Ave. $250,000.

N. Y., Woodside (Ind. Sta. Flushing)—Apartment, Bank and Theatre—United Triangle Corp., c/o E. DeRosa, archt. and engr., 110 West 40th St., New York City, soon takes bids brick, steel and stone, plain foundation, Woodside Ave. between 59th and 60th Sts. $1,000,000. Noted Sept. 25.

N. J., Camden—Hospital—New Jersey Homeopathic Hospital, C. F. Hadley, having plans prepared by Leckey & Hettle, archts., 5 Hudson Ave., 5 story and basement, 64 x 68 ft. addition, plain foundation, Mt. Ephraim Ave.

N. J., Hammonton—High School—Bd. Educ., W. R. Seely, secy., having plans prepared by Leckey & Hettle, archts., 5 Hudson Ave., Camden, 2 story and basement, 64 x 100 ft., and 64 x 200 ft., plain foundation.

N. J., Jersey City—Library—Dept. Pub. Libraries soon takes bids 65 x 100 ft. brick, steel and stone, plain foundation, Stevens Ave. $200,000. A. S. Gottlieb, 101 Park Ave., New York City, archt.

N. J., Montclair — High School — Bd. Educ., F. R. Reagle, secy., 22 Valley Rd., soon takes bids brick, steel and stone, plain foundation. $500,000. Starrett & Van Vleck, 8 West 40th St., New York City, archts.

N. J., Nutley—High School—Bd. Educ., R. W. Booth, pres., having plans prepared by C. G. Jones, 280 Bway., New York City, 3 story, brick, steel and stone, plain foundation, Franklin Ave. $400,000.

N. J., Trenton — Memorial — Trenton World War Memorial Co., having plans prepared by W. A. Klemann, 1st Natl. Bank Bldg., 2 story, 114 x 250 ft., princeton stone and limestone, in Stacy Park. $1,000,000.

Pa., Altoona—Church—Beth Israel Congregation, c/o J. S. Abels, 1201 17th St., having plans prepared by Stanley & Schiebel, 1301 Wick Bldg., Youngstown, O., 2 story and basement, 100 x 120 ft., brick and tile, 17th St. $150,000.

Pa., California—School—Bd. Educ., Pike Run Twp., soon takes bids 2 story and basement, 54 x 183 ft., brick and tile. $150,000. H. W. Altman, Fayette Bldg., Uniontown, archt. Noted Nov. 13.

Pa., Darby—Apartment—P. Levy, having plans prepared by C. E. Wunder, 1520 Locust St., Phila., 4 story and basement, 100 x 200 ft., stone and steel, plain foundation, 69th and Market Sts. $300,000.

Pa., Greensburg—Church—Most Holy Sacrament Church having revised plans prepared by Comes, Perry & McMullen, Renshaw Bldg., Pittsburgh, 1 story and part basement, 70 x 175 ft., stone church. $175,000.

Pa., Lancaster—Warehouse—E. A. Wilson, archt., 1208 Chestnut St., preparing plans 5 story and basement, 120 x 150 ft., brick, plain foundation. $175,000. Owner's name withheld.

Buildings—Commercial (Continued)

Pa., New Kensington — Church — New Kensington Presbyterian Church having plans prepared by J. C. Fulton & Son, Thomson Ruby Bldg., Uniontown, 2 stery and basement, 75 x 100 ft., stone and brick, 11th St. $150,000.

Pa., Phila.—Office and Store—Estate Stephen Girard, Lafayette Bldg., having plans prepared by J. T. Windrim, Commonwealth Bldg., 8 story and basement, stone and steel, plain foundation, block bounded by Chestnut, 11th, 12th and Ranstead Sts.

Pa., West Chester — Auditorium — West Chester Normal School, having plans prepared by Price & Walton, 119 South 4th St., Phila., Phillips Memorial Auditorium, 1 and 2 story, 64 x 162 ft., brick, stone and steel, plain foundation. $300,000.

D. C., Wash. — Apartment — Wardman Constr. Co., 1430 K St. N. W., (owner and archts.), plans apartment house, 2506 K St. N. W. $250,000.

D. C., Wash.—Office—H. L. Rust Co., 912 15th St. N. W., had plans prepared by G. N. Ray, 1219 Connecticut Ave. N. W., office building, 15th and K Sts. $200,000.

W. Va., Elkins—High School—Bd. Educ., having plans prepared by Bates, Frampton & Bowers, Huntington, 2 story, reincon. and brick, concrete pile foundation at Fair Grounds. $200,000.

W. Va., Huntington—Hospital—Kessler-Hatfield Hospital Co., 6th Ave. and 2nd St., takes bids about Dec. 1, 7 story, 36 x 80 ft., rein.-con., brick and steel annex, 6th Ave. $200,000. R. H. Willett, Huntington, archt.

Ala., Birmingham—Court House—Jefferson Co. voted $1,500,000 bonds for new court house. L. E. Gray, city clk. Noted Jan. 10.

Ala., Birmingham — Hospital — Jefferson Co. voted $500,000 bonds for hospital. L. E. Gray, city clk.

Ala., Birmingham—Schools—Jefferson Co. voted $500,000 bonds for new schools. L. E. Gray, city clk.

O., Akron — School — Voted $3,000,000 bonds constructing and remodeling schools. Noted Oct. 30.

O., Belmont—School—Bd. Educ., Van Buren Twp., plans 3 story and basement, 75 x 150 ft., rein.-con. and brick, plain foundation. $225,000 bonds voted. E. S. Mount Stephen, 7 Dixon Ave., Oakwood, Dayton, archt.

O., Bremen—High School—Bd. Educ. having plans prepared by F. J. Porter, 1934 Summit St., Columbus, 2 story and basement, 120 x 150 ft., rein.-con. and brick. $150,000 bonds voted. Noted Oct. 23.

O., Cincinnati—Schools—Voted $8,500,000 bonds for several schools. S. Ach, pres. School Bd.

O., Cleveland—Club House—Natl. Town & Country Club, 17 East 42nd St., New York City, plans brick and stone, plain foundation, here. $2,000,000. P. Chapin, managing dir. G. B. Post & Sons, 101 Park Ave., New York City, archts.

O., Cleveland Heights (Warrensville P. O.)—Schools—Voted $1,500,000 bonds for schools. Noted Oct. 9.

O., Euclid — Schools — Voted $500,000 bonds for schools. Noted Oct. 2.

O., Fairview — School — Voted $200,000 bonds for new school.

O., Lakewood (Cleveland, P. O.)—School and Auditorium St. Augustines Roman Catholic Parish, 14808 Lake Ave., had plans prepared by Koehl & di Nardo, 1720 Euclid Ave., Cleveland, 3 story and basement, 81 x 127 ft., brick, steel and concrete. $150,000.

O., New Philadelphia—High School—City plans new high school. $375,000. Walker & Norwick, Piper Arcade, Canton, archts.

O., Shaker Heights (Cleveland P. O.)—Schools—Voted $650,000 bonds for schools.

O., South Euclid—High School—Voted $410,000 bonds for new high school. Noted Oct. 16.

O., Warrensville—School—Bd. Educ. Bee Hive School Dist., W. S. Malcus, clk., having plans prepared by Fulton & Taylor, 8120 Euclid Ave., Cleveland, 2 story and basement, brick, steel, and concrete addition. $250,000 bonds voted.

O., Youngstown—Theatre and Office—T. W. Lamb, archt., 644 8th Ave., New York City, soon takes bids 4 story, 105 x 225 ft., brick, steel and stone, Wick Ave. and Public Sq., here, for Palace Realty Co. B. F. Keith Theatre Co., lessee. $1,500,000. Noted Feb. 7.

Ill., Okawville — Hotel — Okaw Mineral Spring Hotel Co., c/o A. J. Sadler, pres., Edwardsville, soon takes bids brick, concrete and stone. $750,000 to $1,000,000. H. L. Clymer, Wainwright Bldg., St. Louis, Mo., archt. Noted Feb. 14.

Wis., Milwaukee—Public Safety—City and Milwaukee Co. having plans prepared by A. Ross, 1 Pershing Sq., New York City, and A. C. Clas, 445 Milwaukee St., stone and concrete, 8th and Cedar Sts. $4,000,000. City voted $1,400,000 bonds to defray its portion of cost. Noted Nov. 6.

Ia., Waukon—Court House—Allamakee Co. defeated $175,000 bonds for court house. Will resubmit at later date. Noted Nov. 13.

Neb., Omaha—Schools—Voted $2,500,000 bonds for 3 public and high schoo buildings and additions. Noted May 22.

N. D., Bismarck—Court House—Burleigh Co. defeated $300,000 bonds for new court house. Noted Oct. 16.

Okla., Tulsa—Office and Terminal—Oklahoma Union Ry. Co., 105 West 4th St., having preliminary plans prepared by Hawk & Parr, Cotton Exch., Oklahoma City, and M. B. Baldwin, Tulsa, 10 story and basement, 90 x 140 ft., rein.-con., brick and stone, 4th and Cheyenne Sts. $800,000.

Calif., Alameda — Apartment — R. C. Strehlow, 711 Taylor St., having plans prepared by W. Lowe, Monadnock Bldg., San Francisco, 2 story and basement, timber and stucco, near Neptune Beach. $150,000.

Calif., Auburn—Hospital—Placer Co. defeated $160,000 bonds for hospital. Noted Sept. 11.

Calif., Burlingame—Theatre—Ackerman & Harris, Phelan Bldg., San Francisco, having plans prepared by S. Heiman, 57 Post St., San Francisco, approximately 100 x 175 ft., Class A, ElCamino Recl. $150,000.

Calif., Fresno—School—Sisters of Holy Cross, plan group of fireproof school and convent buildings, foot Van Ness Ave. $500,000.

Calif., Fresno — School — Plans election bonds to exceed $150,000 for new schools and additions. C. R. Barnard, chn. Bd. Educ.

Calif., Laguna Beach—Hotel—F. Kraemer, c/o A. J. Williams, archt., Douglas Bldg., Los Angeles, having preliminary plans prepared 3 story, fireproof hotel. $250,000.

Calif., Los Angeles—Art Academy—Los Angeles Art Center, A. Strotte, pres., 694 New Hampshire St., plans 10 to 12 story and basement, Class A, on 150 x 175 ft. site, South New Hampshire St. Engineer and architect not selected.

Calif., Los Angeles—Auditorium—Syndicate, c/o J. M. Danziger, c/o G. S. Underwood, archt., I. W. Hellman Bldg., having preliminary plans prepared rein.-con. and steel, 18th St. and Grand Ave. $300,000 or more.

Calif., Moss Beach — Clubhouse — Del Monte Properties Co., 620 Market St., San Francisco, having preliminary plans prepared by C. A. Tantau, 251 Kearny St., San Francisco, 2 story, timber and stucco clubhouse. $150,000.

Calif., Oakland—Hospital—Supervs. Alameda Co. takes bids about Dec. 8, three 2 story and basement, rein.-con. nurses and attendants home, 14th Ave. $400,000. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Oakland — School — Bd. Educ. plans Cole Elementary School. $150,000 or more.

Calif., Oakland—Store and Apartment—O. Barnhoffer, c/o J. B. Peterson, designer, 3052 38th St., having plans prepared 3 story and basement, 50 x 225 ft., timber and brick, East 15th St. $150,000.

Calif., Pasadena — School — Bd. Educ. plans Washington School, brick. $150,000. Allison & Allison, Hibernian Bldg., Los Angeles, archts.

Calif., Pomona—Schools—Plans election approximately $500,000 bonds for new schools and additions to present structures.

Calif., Sacramento — Apartment — M. Lewis, c/o G. C. Sellon, archt., Mitau Bldg., having plans prepared 9 story and basement, rein.-con., 11th and N Sts. $250,000.

Calif., San Fernando—City Hall, Library and Civic Center — Plans election bonds to exceed $150,000 for city hall, library and civic center, etc.

Calif., San Francisco — Apartment — Twenty-Four Ninety Jackson St. Corp., c/o H. C. Smith, archt., Humboldt Bank Bldg., had plans prepared 12 story and basement apartment, Jackson St. $450,000.

Calif., San Francisco—Warehouse—P. E. O'Hair, 857 Mission St., had plans prepared by R. W. Jenkins, 243 Diamond St., 4 story, rein.-con., Bryant and 7th Sts. $155,000. Russell & Ellison, 369 Pine St., engrs.

Calif., San Francisco—Loft and Store—Dalziel Estate, 560 Mission St., had plans prepared by W. Lowe, Monadnock Bldg., Los Angeles, reconstructing 6 story and basement, brick and steel, Mission St. $150,000.

Calif., San Francisco—School—Bd. Educ. had plans prepared 1 and 2 story and basement, brick school. $150,000. Krempel & Erkes, Bradbury Bldg., Los Angeles, archt.

Calif., Santa Rosa — Home — California Pythian Home, c/o Jeffery & Schaefer, archts., Kerckhoff Bldg., Los Angeles, having plans prepared (1st unit) 1 story, brick dormitory. Total cost $150,000.

Calif., Sunnyvale — School — Westside Union High School Dist., plans 2nd election $225,000 bonds for fireproof construction. W. H. Weeks, 369 Pine St., San Francisco, archt.

Calif., Venice—Auditorium—Plans election $245,000 bonds for auditorium.

Calif., Venice—City Hall—Plans election $175,000 bonds for city hall.

Ont., Hawkesbury — Church — Parish Priest soon takes bids steel and stone church, 250 ft. long, 100 ft. high. $350,000.

BIDS DESIRED

Mass., Charlestown (Boston P. O.) — Army and Navy Y. M. C. A., F. W. Teague, secy., City Sq., taking bids 4 story and basement, 70 x 105 ft., brick, granite and cast stone addition. $200,000. Coolidge & Carlson, 89 State St., Boston, archt. P. M. Kenway, 248 Boylston St., engr.

Mass., Dorchester (Boston P. O.) — Nov. 28, by Schoolhouse Dept., Ciyt Hall, Boston, F. V. Thompson School, 2 story and basement, 85 x 140 ft., brick, stone and limestone, plain foundation, Maxwell and Seldon Sts., here. $300,000. J. F. Cullen, 333 Washington St., Boston, archt.

Conn., Waterbury—School—Dec. 15, by Building Com. School Dept., c/o J. T. Smith, archts., 27 West Main St., 2 story and basement, brick, plain foundation, Town Plot Dist.

N. Y., New York—Apartment—J. Golding, c/o Sugarman, Hess & Berger, archts. and engrs., 345 Madison Ave., will build 15 story, brick, steel and stone, plain foundation, 2515 Bway. Work will be done by separate contracts under supervision of architects. $2,500,000.

N. Y., Utica—Bank and Office—Nov. 30, by York & Sawyer, archts. and engrs., 100 East 42nd St., New York City, 14 story, 80 x 151 ft., brick, steel and stone, Genesee and Elizabeth Sts., here, for First Natl. Bank & Trust Co., c/o architects. $1,500,000. Noted July 3.

N. Y., Thiells—Home and cottages—Dec. 4, by Superintendent of Purchase, Dept. Architecture, Albany, constructing attendants' home and cottages at hospital, Letchworth Village, here. S. W. Jones, state archt.; adv. E. N.-R. Nov. 20.

N. J., Roselle—Schools—Dec. 11, by Bd. Educ., high school, Chestnut St., and grade school, Aldine St., brick steel and stone, plain foundation. $175,000. Rasmussen & Wayland, 36 West 47th St., New York City, archts.

D. C., Wash.—School—Dec. 9, by Dist. Comrs., constructing J. F. Cook School, P and 1st Sts.; adv. E. N.-R. Nov. 20. Noted Nov. 13.

Fla., Tampa—Jail—Nov. 28, by Comrs. Hillsborough Co., 3 story, rein.-con. and brick jail. $250.000. F. J. James, Citizens Bank Bldg., archt. Noted Sept. 4.

Ala., Birmingham—Store—Jan. 25, by L. Pizitz, 118 19th St., 7 story, 75 x 140 ft., steel and concrete addition. $1,000,000. H. Weelock, Steiner Bldg., archt. Noted May 15. Engineer not named.

La., Alexandria—School, etc.—Dec. 10, by J. W. Bolton, pres. School Bd. Rapides Parish, 3 story, brick school, and 1 story, timber auditorium. $150,000 plus. Favrot & Livaudais, Hibernia Bank Bldg., New Orleans, archts.

O., Cleveland—Apartment—S. Passov, 113-14 Saywell Ave., taking bids 3 story and basement, 42 x 150 ft., brick and timber, 2622 North Morland Blvd. $175,000. A. W. Harris, Discount Bldg., archt.

O., Cleveland—School—F. C. Warner, archt., 767 Hippodrome Annex Bldg., taking bids and opens same about Dec. 3, 2 story and basement, 100 x 150 ft., brick, steel and concrete, East 51st St. and Superior Ave., for St. Andrews Roman Catholic Church, S. Smuca, 5103 Superior Ave., pastor. $200,000.

O., Mansfield—Office and Theatre—Nov. 22, by Knights of Pythias, 4 story and basement, 90 x 120 ft., brick and concrete. $200,000. F. W. Bail, Hanna Bldg., archt. Noted Oct. 9.

Wis., Milwaukee—Apartment—Nov. 24, by A. L. Seidenwartz, archt., 290 3rd St., and tile, plain foundation, 12th St., for 3 story and basement, 52 x 134 ft., brick Wales Building Co., c/o architect. $150,000.

Wis., Milwaukee—Apartment—Nov. 25, by W. F. Neumann, archt., 114 Grand Ave., and concrete, plain foundation, 17th St. 3 story and basement, 90 x 100 ft., brick $150,000. Owners name withheld. Noted Nov. 6.

Ia., Ames—Economics—Dec. 4, by Bd. Educ. Iowa State College, 2 story and basement, rein.-con. and brick, plain foundation, on campus. $250,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, archts. Noted Sept. 18.

Buildings—Commercial (Continued)

Tex., Houston — Museum — W. Watkins, archts., Scanlon Bldg., taking bids 2 story and basement addition, Main St., for Museum Fine Arts, J. T. Scott, secy. $150,000.

Wash., Everett—High School—Nov. 26, by School Dist. 24, Snohomish Co., Junior High School, E shaped, with auditorium and gymnasium, concrete, North Side. $250,000. Morrison & Stimson, Lumber Exch. Bldg., Seattle, archts. Noted May 29.

Calif., Los Angeles—Warehouse—Dunford & Brandner, archts., Lincoln Bldg., taking bids 8 story and basement, 90 x 150 ft., rein.-con., Industrial St., for Richards Trucking & Warehouse Co., 668 South Alameda St.

BIDS RECEIVED

N. J., Elizabeth—School—Bd. Educ., Nov. 3, general contract, grade school, from Agmar Constr. Co., Asbury Park, $182,000; heating and ventilating from W. P. Dunn, Inc., 42 Mechanic St., Newark, $37,928.

N. J., Pensauken (near Camden)—Detention House—Bd. Freeholders Camden Co., Court House, 2 story and basement, 50 x 200 ft. detention house, from G. W. Shaner & Son, Palmyra, $157,563.

O., Warren — High School—Bd. Educ., general contract Harding High School, 3 story and basement, 200 x 305 ft., brick, steel and concrete, Atlantic and Elm Sts., from C. Shutrump Co., 407 Home Savings & Loan Bldg., $549,341. Noted Nov. 6.

Calif., LaVerne — Orphanage — Home Missionary Society of Methodist Episcopal Church, c/o W. H. Weeks, archt., 369 Pine St., San Francisco, Nov. 3, general contract 2 story and basement, 60 x 125 ft., rein.-con. home for orphans, from J. S. Metzger & Son, 1007 South Grand Ave., Los Angeles, $128,765. Noted Aug. 28.

CONTRACTS AWARDED

Me., Sanford — Hall — Bd. Selectmen, 2 story and basement, brick, Main St., to Turner Constr. Co., 178 Tremont St., Boston, Mass. Archts. est. $150,000. Noted Nov. 6.

Mass., Boston—Apartment—G. W. Harvey Co., 115 Chauncy St., will build 10 story and basement, brick and stone, 22-24 Ashburton Pl., by day labor. $150,000. Private plans. Noted Oct. 16.

Mass., Boston—Theater—Jewett Theater Players, 467 Stuart St., 3 story and basement, 100 x 105 ft. with 40 x 125 ft. wing, brick, limestone and steel, Huntington Ave. and St. Botolph St., to J. Shapiro & Son, 27 School St. Archts. est. $150,000. Noted Oct. 9.

Mass., Fall River — Society — Napoleon Guard Society, South Main St., 2 story and basement, 60 x 100 ft., Globe and Montoup Sts., to L. Bolduc & A. Le Clair, Middle St. Archts. est. $150,000.

Mass., Jamaica Plain (Boston, P. O.)—Home—House of the Angel Guardian, 2 story and basement, 75 x 100 ft., brick and stone, to Askin & Sullivan, 580 Massachusetts Ave., Boston. Archts. est. $150,000.

Mass., Roxbury (Boston, P. O.)—Apartment—I. Feinberg, 67 Homestead St., 3 story and basement, 60 x 75 ft., brick and stone, to J. Loitherstein, 26 Angel St., Boston. Archts. est. $150,000.

Mass., West Roxbury (Boston P. O.)—School—Schoolhouse Dept., Boston, 2 story and basement, 40 x 135 ft., brick and stone, Washington St., Germantown Dist., to Archdeacon & Sullivan, 5 East Concord St., Boston. Archts. est. $150,000. Noted Nov. 13.

Mass., Wollaston—Church—St. Ann's Roman Catholic Church, J. J. Fitzgerald, pastor, Willow St., 1 story and basement, 60 x 170 ft., rein.-con. and granite, Woodbine St., here, to J. F. Griffin, 15 Exchange St., Boston. Archts. est. $150,000. Noted Nov. 13.

Mass., Worcester — Mercantile — Brewer Tire Stores, Inc., 216 Commercial St., 2 story and basement, 90 x 160 ft., rein.-con., brick and stone, Federal St., to J. J. Power, 15 Ashland St. Archts. est. $200,000.

N. Y., Buffalo — Store — Bergman Hardware Co., 44 Genesee St. 3 story, 91 x 101 ft. rein.-con. and brick, Oak St., to Crooker & Carpenter, Crosby Bldg., to exceed $150,000.

N. Y., New York—Apartment—East 72nd St. Building Corp., c/o Rouse & Goldstone, archts., 512 5th Ave., brick, steel and stone, plain foundation, 164 West 72nd St., to G. A. Fuller Co., 175 5th Ave. Archts. est. $800,000.

N. Y., New York—Apartment—S. Mayer, 41 East 72nd St., 7 story, brick, steel and stone, plain foundation, Lexington Ave., to J. H. Taylor Constr. Co., 31 Union Sq. Archts. est. $750,000.

N. Y., New York—Apartment—Sterdel Building Co., c/o Rotholz & Golden, archts. and engrs., 311 Lenox Ave., will build brick, steel and stone, plain foundation, 248th St. and Bailey Ave., by day labor. $200,000.

N. Y., New York—Apartment—Weincar Building Corp., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, 105 x 150 ft. brick, steel and stone, plain foundation, 195th St. and Reservoir Ave., by day labor. $300,000.

N. Y., New York—Schools—Bd. Educ., 500 Park Ave., (a) general contract (b) plumbing (c) heating in (1) P. S. 68, Monticello Ave., (2) P. S. 72 Dewey Ave., here, to P. J. Brennan & Son, 624 Madison Ave., (a1) $388,700; to Egan Co., Inc., (b1) $27,-865; to Gillis & Gheoghegan, 537 West Bway., (c1) $46,707 (c2) $47,871; to M. F. Kelly, 51 East 42nd St., (a2) $376,445; to J. J. Kenny Co., 236 West 20th St., (b2) $30,900. Noted Oct. 23.

N. Y., New York—Office—Consolidated Gas Co., 130 East 15th St., 4 story, 100 x 145 ft., brick, steel and stone, plain foundation, 19-25 Audubon Ave., to W. F. Kenny, 44 East 23rd St. Archts. est. $500,000. Noted Oct. 16.

N. J., Irvington (branch of Newark)—School—Essex Co. Vocational Schools, 475 High St., Newark, vocational school on University Pl. between Myrtle and Columbia Aves., here, to J. S. and L. Larlson, Walnut St., Montclair. Noted Oct. 9.

N. J., Jersey City—Office—J. Springarn, c/o W. Neumann, archts., 999 Bergen Ave., 7 story, 80 x 125 ft., brick, steel and stone, plain foundation, Five Corners, to Waldemar Mortensen, Inc., 405 Lexington Ave., New York City. Archts. est. $350,000.

N. J., Princeton — Dormitory — Day & Klauder, archts., Franklin Bank Bldg., Phila., 3 story and basement, 30 x 380 ft. with three 25 x 70 ft. transverse wings, stone, plain foundation, to Matthews Constr. Co., Princeton. Noted Oct. 16.

Pa., Oakmont—School—Bd. Educ., general contract 2 story and basement grade school, to J. G. Fullman Co., E. E. Savings Bldg., Pittsburgh, $247,290.

Pa., Phila.—School—Bd. Educ., 19th and Chestnut Sts., general contract 3 story and basement, rein.-con. and brick addition to W. Cullen Bryant School, plain foundation, 6th and Cedar Sts., to Bowden Constr. Co., 1935 Chestnut St., $195,900; heating to F. J. Mellon, 5485 Beaumont St., $24,947. Noted Nov. 13.

Md., Woodstock — College — Woodstock College, Society of Jesus, 4 story and basement, 47 x 107 ft. extension to east wing, 2 story and basement, 50 x 104 ft. chapel and auditorium, granite and plain foundation, also 2 towers, 119 ft. high to support water tanks, to F. V. Warren Constr. Co., 1913 Arch St., Phila.

W. Va., Elkins—College—Davis & Elkins College, 2 buildings, 4 story, brick, Sycamore Ave., to Harrison Constr. Co., Petersburg, Va., $228,400. Noted July 31.

W. Va., Morgantown—Hotel—Morgantown Hotel Corp., 7 story and basement, 150 rooms hotel, High St., to Foreman & Putnam, Marietta, O., $550,000.

W. Va., Wheeling — Bank and Office — Central Union Trust Co., general contract 10 story, 66 x 128 ft., concrete, brick and steel, Market St., to R. R. Kitchen Co., Bae Mar Pl., cost plus basis. Archts. est. $400,-000. Noted July 31.

N. C., Rutherfordton—School—City, general contract 3 story and basement, brick school, to Palmer & Spivey Constr. Co., Elizabeth Ave. Charlotte, $127,450.

Fla., St. Petersburg — Schools — City, Euclid and Colored Schools, both 2 story and basement, brick, to V. A. Bocke, St. Petersburg. Archts. est. $250,000.

La., New Orleans—Hospital—Favrot & Livaudais, archts., Hibernia Bank Bldg., (1st unit), 8 story and basement, 110 x 160 ft., rein.-con. and brick, Napoleon Ave., Clara and Magnolia Sts., to Seidenbreck Constr. Co., St. Louis, Mo., for Southern Baptist Hospital Comn. $900,000 to $1,000,000. Noted Oct. 30.

Tenn., Memphis—Warehouse and Office—Memphis Furniture Mfg. Co., 718 South Camille St., general contract 3 story office and display building and warehouse addition, Camille St. and Southern R.R. tracks, to F. J. Ozanne & Co., Memphis; electrical work, to Cronin, Baker & Tindall, 339 Madison St.; heating, etc., to Fischer Heating Co., 51 South 3rd St. Archts. est. $200,000.

Mich., Detroit — Hotel — Pungs-Tuller Hotel Co., Tuller Hotel, 13 story and basement, 90 x 120 ft., rein.-con., brick and steel, plain foundation, Park Ave., to O. Misch Co., 159 East Columbia Ave. Archts. est. $1,500,000.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story and basement, 100 x 214 ft., rein.-con., brick and stone, plain foundation, Canfield Ave., to Corrie Bros., 507 Owen Bldg., $253,000. Noted Oct. 16.

Ill., Wheaton—College—Wheaton College, c/o C. A. Blanchard, pres., general contract 3 story and basement, 75 x 126 ft., concrete, brick and stone, to Midland Eng. & Constr. Co., 332 South Michigan Ave., Chicago. Archts. est. $150,000.

Wis., Milwaukee — Apartment — Sheldon Realty Co., c/o E. G. Schroeder Co., 465 Bway., archt., 3 story and basement, brick and concrete, plain foundation, Maryland Ave., to Reisinger & Co., 466 Oakland Ave. Archts. est. $150,000.

Wis., Milwaukee—Store—E. Miller, 269 Grand Ave., 2 story and basement, 25 x 100 ft., brick and timber, plain foundation, Lincoln Ave., to Pfeifer Constr. Co., 586 66th Ave. Archts. est. $150,000.

Wis., Milwaukee—Store and Apartment—I. H. Benesch Co., 513 Van Buren St., 3 story and basement, 85 x 130 ft., brick and tile, plain foundation, State St., to Raulf Co., 428 Grand Ave. Archts. est. $150,000.

Ia., Cedar Rapids — Office — Churchill Drug Co., 301 South 1st St. E., general contract 6 story and basement, 120 x 139 ft., rein.-con., brick and tile 2nd St. S and 9th Ave., to T. Stark & Co., 118 South 11th St. W., $186,500. Noted July 31.

Kan., Arkansas City—Office—Southwestern Bell Telephone Co., Oklahoma City, Okla., 4 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, Washington St., to Cork & Ferrier, 318 North 1st St., $200,000.

Mo., Concordia — Dormitory — St. Pauls College, general contract 3 story and basement, 72 x 172 ft., rein.-con., brick and stone, to Peterson Constr. Co., Saline, Kan., $98,800. Noted Aug. 21.

Mo., Marshall—Dormitory—Bd. Mgrs., State Eleemosynary Institutions, Jefferson City, general contract dormitories J and K, 3 story and basement, 36 x 70 ft. each, with connecting corridors, passageways, etc., rein.-con., brick and stone, here, to Lehr Constr. Co., 1712 Fred Ave., St. Joseph, $125,871. Noted Oct. 30.

Mo., St. Louis — Apartment — Wagner-Grant-Bell Realty Co., International Life Bldg., will build 8 story and basement, 160 x 160 ft., rein.-con., brick, stone and steel, Skiller Rd. and Southwood St., by day labor. $750,000. Private plans.

Mo., St. Louis—Apartment—F. H. Williams, 4561 Delmar Blvd., 3 story and basement, 85 x 87 ft., rein.-con., brick and stone, 5474-82 Delmar Blvd., to W. T. Smith & Sons, 4623 Macklind St. Archts. est. $150,000.

Mo., St. Louis—Exchange—Southwestern Bell Telephone Co., Bway. and Locust St., general contract 2 story and basement, 90 x 160 ft., rein.-con., brick and stone, to Murch Bros. Constr. Co., Exch. Bldg. Archts. est. $250,000.

Calif., Los Angeles—Garage—Corondolet Fireproof Garage Co., Corondolet St., 9 story, 100 x 123 ft., rein.-con., plain foundation, Corondolet St., to Trewitt & Shields, Mutual Life Bldg., $400,000.

Calif., Oakland—Office—Wythe, Blaine & Olson, archts., 1800 Telegraph Ave., 12 story and basement, Class A, vicinity of 19th and Franklin Sts., to C. W. Heyer, Jr., Mills Bldg., San Francisco, approximately $700,000. Owners name withheld.

Calif., Sacramento—Hotel—L. Greenwald, 315 Montgomery St., San Francisco, 6 story and basement, 100 room, concrete, 8th St., to G. D. Hudnutt, California Fruit Bldg., approximately $150,000.

Calif., San Francisco—Store and Hotel—F. W. Leis, c/o Powers & Ahnden, archts., 460 Montgomery St., 12 story and basement, Class A construction, Market and Fulton Sts., to Cahill Bros., Call Bldg., San Francisco, $350,000.

Calif., San Francisco—Warehouse—P. E. O'Hair, 857 Mission St., 4 story, rein.-con. warehouse, Bryant St., to Barrett & Hilp, 918 Harrison St., $148,500. Noted Nov. 20.

Calif., Santa Monica — Store — C. A. Tegner, 402 Santa Monica Blvd., will build 4 story and basement, 50 x 100 ft., brick and steel, 4th St., by day labor. H. C. Hollwedel, 1819 South Manhattan Pl., Los Angeles, archt.

Mexico, Saltillo — Seminary — Baptist Church, (1st unit), 3 story and basement, rein.-con., brick, stone and marble, plain foundation, here, to E. S. Marriott, Mexico City, $160,000. Noted Aug. 14.

Federal Government Work

BIDS DESIRED

Pa., Phila.—Addition, etc.—Dec. 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., addition and alterations, etc., to Post Office and Court House, here; adv. E. N.-R. Nov. 20.

Pa., Phila. — Storehouse — Dec. 15, by U. S. Engineer Office War Dept., Wash., D. C., storehouse, at Fort Mifflin, here.

Del., Wilmington—Dredging—Dec. 9, by U. S. Engineer Office, War Dept., Wash., D. C., dredging in Cooper and Maurice River, N. J.

Va., Norfolk—Pump, etc.—Dec. 15, by U. S. Engineer Office, Norfolk, pumping, piping, etc. for U. S. dredge "Currituck"; adv. E. N.-R. Nov. 20.

Tex., Galveston—Dredging—Dec. 17, by U. S. Engineer Office, Galveston, redredging Intracoastal Canal, at certain places between here and head of Matagorda Bay; adv. E. N.-R. Nov. 20.

Idaho, American Falls—Foundation—Dec. 20, by Dept. Interior, Bureau Reclamation, constructing foundation for dam, here. E. Mead, comr.; adv. E. N.-R. Nov. 20.

Washington—Road—Nov. 25, by C. H. Purcell, dist. engr. Bureau Pub. Rds., 316 New Post Office Bldg., Portland, Ore., crushed rock surfacing 8.71 mi. Mt. Baker Highway, Shuksan-Austin Pass Section, Whatcom Co., here.

California—Road—Nov. 29, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, improving 12.6 mi. Sonora-Long Barn Natl. Forest Highway in Tuolumme Co., 85,000 cu. yd. excav., 23,300 cu.yd. crushed rock surfacing, etc.

BIDS RECEIVED

D. C., Wash.—Tunnel—U. S. Engineer Office, 250 Old Land Office Bldg., about 3,600 ft. tunnel for second high service of water supply, from Allen Pope, Wash., D. C., $230,270. Noted Oct. 9.

Miss., Gulfport — Storehouse — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., 1 story, concrete, tile and stucco storehouse, for U. S. Veterans Hospital 74, here, from Jefferson Constr. Co., 823 Poydras St., New Orleans, La., $15,000. Noted Oct. 23.

CONTRACTS AWARDED

Me., Rockland—Stone—U. S. Engineer Office, Custom House, Boston, Mass., about 7,000 tons stone in breakwater here, to Snow Marine Co., Rockland, $2.15 per ton. Noted Nov. 13.

D. C., Wash.—Power Plant, etc.—U. S. Dept. Interior, Wash., D. C., power, heating and lighting plant, at St. Elizabeths Hospital, to V. N. Weland Co., 135 North 22nd St., Phila., Pa., $209,000.

Miss., Vicksburg — Levee Work — Third Mississippi River Dist., P. S. Box 404, constructing 190,000 cu.yd. levee work, to J. W. Noble, Fayette, $0.2089 per cu.yd. Noted Oct. 23.

La., New Orleans—Earthwork—U. S. Engineer Office, War Dept., Wash., D. C., 95,000 cu.yd. earthwork in Ames Levee, Lafourche Levee Dist., here, to M. E. Geren, c/o U. S. Dist. Engrs. Office, 140 Decatur St., New Orleans. $18,279.

Tenn., Memphis — Barges — Mississippi River Comn., 1st and 2nd Sts., 1006 McCall Bldg., 5 steel line barges, to Rock Island Bridge Co., Rock Island, Ill., $24,900. Noted Sept. 25.

Mo., Excelsior Springs—Garage, etc.—U. S. Veterans Bureau, Wash., D. C., garage and storehouse at Hospital 99, here, to Swenson Constr. Co., Shubert Bldg., Kansas City, $15,480. Noted Oct. 9.

California—Road—U. S. Bureau Pub. Rds., crushed rock surfacing 9.5 mi. Grants Pass-Crescent City Rd., Del Norte Co., to Webber Constr. Co., Crescent City, $63,485.

Unclassified

PROPOSED WORK

Subway—Boston, Mass.—Transit Dept., 1 Beacon St., plans extending Boylston St. subway from Kenmore Station westward under Commonwealth Ave. T. P. Sullivan, chn.

Playground—Brighton (Boston, P. O.), Mass.—School House Dept., City Hall, Boston, plans playground adjoining Auburn School, T. Gardner Dist. $30,000. T. P. Glynn, ch.

Park—Gloucestor, Mass.—Plans public park at Ledgemont Ave. $25,000.

Playground — Roxbury (Boston P. O.), Mass. — School House Dept., City Hall, Boston, plans playground adjoining Lewis School, Lewis Dist., here. $25,000. T. P. Glynn, chn.

Stadium—Brooklyn, N. Y.—Hyman, Rapp & Silberman, c/o Magnuson & Kleinert, archts. and engrs., 52 Vanderbilt Ave., New York, having plans prepared brick, steel and stone stadium, plain foundation, West 8th St. $500,000.

Park Development — New York — State voted $15,000,000 bonds for developing system of parks as follows:—state forest preserve $5,000,000, Palisades Interstate Park $3,500,000, Allegheny State Park $2,000,000, New York State Reservation at Niagara $1,000,000, Letchworth Park $500,000, parks and parkways in Finger Lake Dist. $500,000, parkway connections between Bronx River Parkway and bridge from Peekskill to Bear Mountain, in Westchester Co., $1,000,000, developing state park system on Long Island $1,000,000, developing and extending other state parks incl. State Reservation at Saratoga Springs, the Taconia Park, and park on Tongue Mountain peninsula at Lake George, $500,000.

Park and Playground — Omaha, Neb. — Park Dept., c/o J. B. Hummel, comr., making plans park, comfort stations, swimming pool, playground, etc., 21st and Paul Sts. $30,000.

Pipeline—Texas—E. M. Marland, pres. Marland Oil Co., Ponca City, Okla., soon takes bids 8 or 10 in. pipeline from San Angelo extending west to Reagon County field. $2,000,000.

Grade Crossing — Houston, Tex. — City and Galveston, Houston & Henderson R.R., Houston, soon takes bids grade crossing over Berry Gully. $28,000. Howe & Wise, 1st Natl. Bank Bldg., engrs.

Wharf — Tacoma, Wash. — St. Paul & Tacoma Lumber Co., Tide Flats, takes bids about Dec. 10, private lumber wharf to accommodate 7 ocean going steamers; dredging 265 ft. waterway and extending wharf 1,200 ft. equipped with two 20 ton electric cranes. $500,000. Private plans.

Street Lighting System — Los Angeles, Calif. — Plans 159 pressed steel posts on Main St. between 36th Pl. and 57th St. $79,500. H. A. Van Norman, City Hall, engr.

Fire Alarm System—Stockton, Calif.—A. L. Banks, city clk., rejected bids Nov. 10, for police and fire alarm systems throughout city. Will readvertise. W. B. Hogan, city engr. Noted July 3.

BIDS DESIRED

Bulkhead, etc.—Cotuit, Mass.—Nov. 24, by Dept. Pub. Wks., Div. Waterways, State House, Boston, 1,200 lin.ft. timber bulkhead, and 735 ft. timber spur jetties, here. W. F. Williams, comr.

Grain Elevator—Halifax, N. S.—Dec. 10, by Dept. Trades & Commerce, Ottawa, Ont., 1,000,000 bu. grain elevator, here.

BIDS RECEIVED

Rip Rap—Harwich, Mass.—Dept. Pub. Wks., State House, Boston, about 900 tons heavy stone riprap, for jetty at entrance of Witchmere Harbor, Harwichport, here, from J. W. Nickerson, Old Harbor Rd., Chatham, $7,110.

Subway—Toronto, Ont.—York Twp. had plans prepared subway, concrete abutments steel girder spans, concrete flooring. $25,000. James, Proctor & Redfern, 36 Toronto St., engrs.

CONTRACTS AWARDED

Grain Elevator—Laconia, N. H.—Belknap Co. Farmers Exchange, 35 x 110 ft. grain elevator, brick and timber, to F. E. Morrill, Laconia. Archts. est. $25,000 incl. equipment.

Mechanical Equipment, etc.—New York, N. Y.—Bd. Educ., 500 Park Ave., mechanical equipment, etc., in New York Training School for Teachers, West 135th St., plumbing, to N. P. Lorenzo, 430 Pearl St., $79,600; heating, to Almirall & Co., 1 Dominick St., $157,981; electrical work, to Jandous Electric Equipment Co., 109 West 31st St., $56,740. Noted Oct. 16.

Subway — Brooklyn, N. Y. — Bd. Transportation, 49 Lafayette St., New York, extending 14th St.-Eastern Dist. subway, here, Sect. 6 D, Route 8, to Oakdale Contg. Co., 93 Amity St., Flushing, $3,202,939; Sect. 6 B, Route 8, to Underpinning & Foundation Co., 290 Bway., New York, $2,733,227. Noted Oct. 23.

Heating—Phila., Pa.—See "Buildings—Commercial."

Heating—Memphis, Tenn.—See "Buildings—Commercial."

Storage Tanks—Big Lake, Tex.—Marland Oil Co., c/o J. B. Baker, mgr., ten 80,000 bbl. steel oil tanks, to Chicago Bridge & Iron Wks., Praetorian Bldg., Dallas. Engrs. est. $2,000,000. Noted Nov. 13.

Ornamental Street Lighting System — Huntington, Calif. — See "Streets and Roads."

Street Lighting System — Los Angeles, Calif. — Street lighting system on Sunset Blvd., to J. C. Rendler, Inc., 625 South Main St., $156,777. Noted Nov. 13.

Grand Stand—Dallas, Tex.—Dallas Baseball Assn., Mercantile Bank Bldg., c/o W. Morris, pres., will build fireproof grandstand, by day labor. $50,000. R. O. Jameson, Southwestern Life Bldg., engr. Noted Oct. 2.

Material and Equipment

PROPOSED WORK

Coal Equipment — Detroit, Mich. — Pub. Lighting Comn., East Atwater St., soon takes bids furnishing pulverized coal equipment for Morrell St. power station. $300,000. Smith, Hinchman & Grylls, 800 Marquette Bldg., engrs.

Tank—Terra Bella, Calif.—Terra Bella Irrigation Dist. plans to purchase one 1,500 bbl. steel water tank. E. R. Clemens, secy.

BIDS DESIRED

Tractor—Medford, Mass.—A. A. Lucey, acting purch. agt., in market for about 8,000 lb. tractor grader, equipped with scarifier.

Asphaltic Cement — Long Island City, N. Y.—Nov. 28, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., 300 tons asphaltic cement to Bureau Highways.

Gravel—Baton Rouge, La.—Dec. 2, by State Hy. Dept., Reymond Bldg., gravel for surfacing State Project 343 C, Shreveport Natchitoches Highway, Red River Parish. W. B. Roberts, ch. engr.

Asphaltic Cement—New Orleans, La.—Dec. 9, by A. Murphy, comr. Dept. Finance, City Hall, furnishing 26 cars asphaltic cement, f.o.b. car switch, at repair plant, here.

Snow Plow—Janesville, Wis.—H. Traxler, city mgr., taking bids 8 or 10 in. snow plow.

Piling — Waterloo, Ia. — Miller-Taylor Constr. Co., Box 346, in market for 113 pieces Lackawanna sheet piling, No. 12 or 14, 25 ft. long, f.o.b. Wichita, Kan. Will purchase used piling if good as new.

Crane—Omaha, Neb.—A. Smith, purch. agt. Nebraska Power Co., 15th and Farnaur Sts., taking bids 5 ton spur geared chain hoist traveling crane. $3,500.

Road Material—Clayton, Mo.—Nov. 26, by J. Jablonsky, engr. St. Louis Co., Court House, macadam, sand and screening for repairing and maintaining various roads in 1925.

Switchgear, etc. — Melbourne, Victoria, Australia—Dec. 20, by R. Liddelow, secy. State Electricity Comn., switchgear and accessories, Spec. 24/114, for Yallourn Power Scheme; adv. E. N.-R. Nov. 20.

Transformers and Spares — Melbourne, Victoria, Australia—Jan. 19, by R. Liddelow, secy. State Electricity Comn., 6,600 volt transformers and spares, Spec. 25/1, for Yallourn Power Scheme; adv. E. N.-R. Nov. 20.

Voltage Regulating Apparatus — Melbourne, Victoria, Australia—Jan. 15, by R. Liddelow, secy. State Electricity Comn., furnishing voltage regulating apparatus, Spec. 25/2, for Yallourn Power Scheme; adv. E. N.-R. Nov. 20.

BIDS RECEIVED

Steel Beams — Boston, Mass. — Transit Dept., Beacon St., about 250 tons steel beams, 15- to 30-in. in depth and various lengths, f.o.b. cars, 14 Cypher St., South Boston, from Bethlehem Steel Co., Bethlehem, Pa., $2,455 per ton. Noted Oct. 30.

Rails—New York, N. Y.—Bd. Transportation, 49 Lafayette St., 261 tons rolled manganese rails for Rapid Transit R.R., from Manganese Steel Rail Co., 30 Church St., $44,096. Noted Nov. 6.

Cement—Merced, Calif.—Merced Irrigation Dist., Nov. 5, 350,000 bbls. or more Portland cement, from Pacific Portland Cement Co., Pacific Bldg., San Francisco, $3.32 bbl. less $0.40 bbl. for return of sacks, $0.05 bbl. for cash. Noted Oct. 30.

CONTRACTS AWARDED

Cement—New York, N. Y.—J. Miller, pres. Manhattan Boro., Municipal Bldg., 5,000 bags portland cement, to J. A. McCarthy, 551 Exterior St., $3,400; 800 tons inorganic dust, to New York Trap Rock Co., 101 Park Ave., $5,440. Noted Nov. 13.

Sand Grit, etc. — New York, N. Y. — H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., 2,000 cu.yd. sand grits and 3,000 cu.yd. ashes to Ames Building Material Co., 3437 Kingsbridge Rd., $3,750 and $4,200 respectively; 2,000 bags portland cement, to C. J. Mallett, Inc., 2554 St. Raymond Ave., $1,360; 25,000 gal. tar, to Barrett Co., 17 Battery Pl., $3,750; 600 cu.yd. paving sand, to J. W. Farrell, 6 Church St., $1,044; and 25 tons paving sand, to F. J. Lewis Mfg. Co., Eastern Blvd. and 117th St., $619. Noted Nov. 13.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.R.

OFFICIAL PROPOSALS

Bids: Nov. 24.

Waterworks Construction

Coconut Grove, Fla.

Sealed proposals for the construction of a waterworks system, embracing power and pumping station, electric generating machinery, motor-driven centrifugal pumps and compressors, water softening plant, elevated steel tank, the installation of distribution system materials furnished by the City, etc., will be received by the Mayor and Board of Aldermen of the City of Coconut Grove Florida, until 8 p.m., Monday, November 24, 1924.

Plans and specifications are on file at the Coconut Grove City Hall and at the Engineer's office, 112 Baker Street, Daytona, Fla., from whom the documents may be obtained by depositing twenty-five dollars, three-fifths of which will be refunded to bona fide bidders and one-fifth to non-bidders, upon the prompt return of the instruments in good condition.

Manufacturers, supply houses, agents and minor contractors may secure specified portions of the instruments, only, by depositing ten dollars, a portion of which is refundable as above indicated.

The usual rights of rejection are reserved.

H. DeB. JUSTISON,
Mayor.
E. M. JORDAN, JR.,
City Clerk.

Engineers:
MAIN ENGINEERING COMPANY,
Daytona, Florida.

Bids: Dec. 8.

Pumping Equipment

Highlands, N. J.

Notice is hereby given that the Borough Council of the Borough of Highlands will receive and open bids at a meeting of the Borough Council to be held on Monday evening, December 8th, 1924, at the Borough Hall, Bay Avenue, Highlands, New Jersey, at 8 o'clock.

Bids are wanted for installing an oil burning power pumping equipment in the water plant of the Borough of Highlands.

Specifications may be had upon application to U. Grant Johnson, Borough Clerk and Superintendent.

Certified check for Three Hundred ($300.00) Dollars made to the order of the Borough must accompany all bids.

Right is reserved to reject any and all bids.

Bond, with sureties sufficient to the Borough Council must be furnished in the contract price, in the New Jersey form.

Dated November 10, 1924.

U. GRANT JOHNSON,
Borough Clerk.

Bids: Jan. 7, 1925.

Additions to the Sewage Treatment Plant

Canton, Ohio.

Sealed proposals will be received at the office of the Director of Public Service, Canton, Ohio, at one o'clock Canton City Time of the 7th day of January, 1925, for the furnishing the material and performing the labor for the construction of additions to the Sewage Treatment Plant. Plans and Specifications, $25.00. Refund.

J. A. SYLER,
Director of Public Service.
McCLASKEY & REESE, Engineers,
Canton, Ohio.

OFFICIAL PROPOSALS

Bids: Dec. 5.

Steel or Concrete Pressure Main

Flint, Mich.

Sealed proposals will be received by the City Clerk of Flint, Michigan, up to eight (8) o'clock p.m., Eastern Time, December 5, 1924, at which hour the bids will be publicly opened and read by the Clerk and the rates of bids for the different items noted, for the construction of approximately Sixteen Thousand Five Hundred (16,500) feet of forty-eight (48) inch pre-cast concrete conduit with expansion joints, or Sixteen Thousand Five Hundred (16,500) feet of forty-eight (48) inch welded or Lock-Bar or fifty (50) inch Riveted Steel pipe and appurtenances comprising approximately:

16,500 feet of 48 or 50 inch pressure pipe, 6-13 ft. cut. River Crossing approximately 170 feet.
444 feet of steel or concrete trestles.
125 feet of 24-inch pipe drains.
246 feet of 15-inch pipe drains.
5 blow-off vaults.
3 air valve vaults.
13 manhole vaults.
13 concrete headwalls.

The plans and specifications for the work may be examined at the office of the City Engineer, Flint, Michigan, or copies may be obtained by making a Twenty-Five Dollar ($25.00) deposit, which will be refunded upon their return in good condition.

A certified check for a sum of not less than five (5) per cent of the amount of the proposal will be required with each proposal.

The right to reject any proposal, to reject any or all proposals and to waive defects in proposals, is reserved by the city.

JUDSON L. TRANSUE,
Mayor.
FRANK D. KINK,
City Clerk.

Bids: Dec. 20.

State Electricity Commission of Victoria

Melbourne, Victoria, Australia.

Tenders are hereby invited for the supply, delivery, etc., of the following for the Yallourn Power Scheme.

Copies of Tender Form and Specification will be available upon application to: Office of the Bureau of Foreign & Domestic Commerce, United States Department of Commerce, First National Bank Building, CHICAGO, and Office of the Bureau of Foreign & Domestic Commerce, United States Department of Commerce, 734 Customs House, NEW YORK CITY.

SPECIFICATION NO. 24/114—SWITCH-GEAR & ACCESSORIES

CHARGE: £2:2:0 for the first three copies of Tender Form, Conditions of Contract, Specification and Drawings complete. This charge will be returned on receipt of a bona fide tender. A fourth copy and any further copies will be supplied for the sum of 10/6d each. This charge is not returnable.

PRELIMINARY DEPOSIT: A Preliminary Deposit of £100:0:0 is to be lodged with Tender.

The Specification may be inspected at the abovementioned offices.

The Commission does not bind itself to accept the lowest or any tender.

Tenders on prescribed form, properly endorsed and addressed, must be delivered to the undersigned in Melbourne not later than noon on 20th December, 1924.

R. LIDDELOW,
Secretary.

OFFICIAL PROPOSALS

Bids: Dec. 4.

Sewer

Syracuse, N. Y.

Sealed proposals will be received until 2:00 o'clock, standard time, December 4, 1924, at the office of the Syracuse Intercepting Sewer Board, Room 200, No. 301 East Washington Street, Syracuse, N. Y., for Contract No. 49 for the sewer in the bed of the old Erie Canal, extending from Orange Street to Pine Street for a distance of about 3,875 lineal feet in the City of Syracuse, N. Y. Proposals are to be received under three alternatives; three of which are for sub-divisions of the work and the fourth alternative for the work as a whole. The sewer is to be constructed of reinforced monolithic concrete with a horizontal width of 7½ feet and a vertical height of 10 feet to 10 feet 6 inches. Proposals must be made on blanks to be furnished upon application and must be accompanied by a New York draft or certified check upon a Syracuse bank for 5% of the amount bid, which shall be payable to the order of the Board, and shall be given as a guarantee that the successful bidder will within five days after award execute said contract. Drawings, specifications and form of proposals and contract are on file in the office of the Board. Copies may be obtained by depositing $10.00 to insure their return in acceptable condition on or before January 1, 1925.

HARRY J. HAMLIN,
Secretary.

Bids: Dec. 1.

Concrete Bridge

Lansing, Mich.

Sealed bids will be received by City Clerk of Lansing, Michigan, until 4 P. M., December 1, 1924, for the construction of a reinforced concrete bridge over Grand River and New York Central tracks at Kalamazoo Street. Approximate quantities: excavation 2600 cubic yards, concrete 4800 cubic yards, reinforcing steel 268 tons, structural steel 38 tons, piling 8000 lineal feet. Plans and specification may be obtained from the City Engineer by making deposit of $25.

O. E. ECKERT,
City Engineer.

Bids: Dec. 4.

Concrete Grain Elevator

Houston, Tex.

Bids are desired by the Harris County Houston Ship Channel Navigation District to be filed not later than 12 noon, December 4th, 1924, for the construction of a Concrete Grain Elevator with Steel Shipping Galleries located on the North Side of the Turning Basin, Houston, Texas.

Bids must be accompanied by certified check for 5 per cent of bid, payable to Chairman of the Navigation District to be forfeited if successful bidder fails to enter into contract and give Surety Company bond of 50 per cent of contract.

Plans and specifications may be obtained at office of undersigned or at office of John S. Metcalf Company, Chicago, Illinois, upon deposit of a $500.00 certified check, which will be refunded upon return of the plans in good condition if plans are returned on or before December 15th, 1924.

All rights reserved. Mark bid, seal and deposit with

B. C. ALLIN,
Director of the Port,
Houston, Texas.